Usenet Newsgroup Archive: rec.radio.amateur.space

2009

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Date span: 2009-01-03 through 2009-12-31

Source text: rec.radio.amateur.space.txt

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Messages included in this PDF: 154

Messages are presented chronologically by archived date.

Binary or encoded payloads are not printed as blocks of encoded text; a placeholder appears where such material was detected. The original source text is unchanged.

1. WSR-001 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-01-03 20:35:50 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000c01c96de2$d3d2bdd0$7b783970$@net>
Source record: 700
Cross-posted to: rec.radio.amateur.space,rec.radio.info

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This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-001.S1
WSR 001 Part 1 01/01/2009

AMSAT NEWS SERVICE BULLETIN 360.S1
FROM AMSAT HQ SILVER SPRING, MD, January 01, 2008
TO ALL RADIO AMATEURS
BID: $ANS-001.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: Science Mode - Beacon ONLY
Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01012009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder
```

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12252008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS

Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW

435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12252008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-001.S2
WSR 001 Part 2 01/01/2009

AMSAT NEWS SERVICE BULLETIN 001.S2
FROM AMSAT HQ SILVER SPRING, MD, January 01, 2009
TO ALL RADIO AMATEURS
BID: $ANS-001.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[12182008]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output

435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12252008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM

1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====

CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v

BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12252008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-001.S3
WSR 001 Part 3 01/01/2009

AMSAT NEWS SERVICE BULLETIN 001.S3
FROM AMSAT HQ SILVER SPRING, MD, January 01, 2009
TO ALL RADIO AMATEURS
BID: $ANS-001.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet

Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932

Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB

L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====

UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]

=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-001.S4
WSR 001 Part 4 01/01/2009

AMSAT NEWS SERVICE BULLETIN 001.S4
FROM AMSAT HQ SILVER SPRING, MD, January 01, 2009
TO ALL RADIO AMATEURS
BID: $ANS-001.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-001.S5
WSR 001 Part 5 01/01/2009

AMSAT NEWS SERVICE BULLETIN 001.S5
FROM AMSAT HQ SILVER SPRING, MD, January 01, 2009
TO ALL RADIO AMATEURS
BID: $ANS-001.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE

Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728

FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}amsat.org
NNNN
/EX

2. Radio Meteor Obs. Bull. December 2008 Geminids Ursids

Newsgroup: rec.radio.amateur.space
Date: 2009-01-07 18:51:19 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <fau9m49oetnd0hmfqnqk8pt2fl84mv7p94@4ax.com>
Source record: 701
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 185 of December 2008 (91 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0812.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

3. WSR-008 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-01-10 01:34:50 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002601c972c3$973609a0$c5a21ce0$@net>
Source record: 702
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-008.S1
WSR 008 Part 1 01/08/2009

AMSAT NEWS SERVICE BULLETIN 008.S1
FROM AMSAT HQ SILVER SPRING, MD, January 08, 2009
TO ALL RADIO AMATEURS
BID: $ANS-008.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: Science Mode - Beacon ONLY
Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01012009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder
```

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/us-FM
BBS - OFF
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[01082009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS

Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW

435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-008.S2
WSR 008 Part 2 01/08/2009

AMSAT NEWS SERVICE BULLETIN 008.S2
FROM AMSAT HQ SILVER SPRING, MD, January 08, 2009
TO ALL RADIO AMATEURS
BID: $ANS-008.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[12182008]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/us-FM
BBS - OFF
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output

435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[01082009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM

1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====

CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v

BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-008.S3
WSR 008 Part 3 01/08/2009

AMSAT NEWS SERVICE BULLETIN 008.S3
FROM AMSAT HQ SILVER SPRING, MD, January 08, 2009
TO ALL RADIO AMATEURS
BID: $ANS-008.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====

NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?

Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1

Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]

=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS

Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-008.S4
WSR 008 Part 4 01/08/2009

AMSAT NEWS SERVICE BULLETIN 008.S4
FROM AMSAT HQ SILVER SPRING, MD, January 08, 2009
TO ALL RADIO AMATEURS
BID: $ANS-008.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-008.S5
WSR 008 Part 5 01/08/2009

AMSAT NEWS SERVICE BULLETIN 008.S5
FROM AMSAT HQ SILVER SPRING, MD, January 08, 2009
TO ALL RADIO AMATEURS
BID: $ANS-008.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}amsat.org
NNNN
/EX

4. ANS-011 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-01-11 05:18:34 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000501c973ac$04ae49f0$0e0addd0$@net>
Source record: 703
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-011

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Launch Alert for Seven Small Satellites on January 21
* VE3NPC and G3VZV Complete Transatlantic AO-51 Mode V/S Contact
* AMSAT-DC Spring Satellite Workshop Seeks Members for Mission Teams
* ARISS logo items at CafePress
* Satellite Shorts From All Over
* ARISS Status Report for the Week of January 5, 2009

SB SAT @ AMSAT $ANS-011.01
Launch Alert for Seven Small Satellites on January 21

AMSAT News Service Bulletin 011.01
>From AMSAT HQ SILVER SPRING, MD.
January 11, 2009
To All RADIO AMATEURS
BID: $ANS-011.01

Mineo Wakita, JE9PEL sent a Cubesat launch alert for seven amateur radio satellites planned as secondary payloads when Japan launches its GOSAT IBUKI satellite on January 21, 2009 at 03.54 UTC.

GOSAT - Greenhouse gases Observing SATellite is an environmental monitoring satellite which will be launched from Japan's Tanegashima Space Center aboard the H-IIA F15 booster.

Information about the primary mission can be found on-line at:
http://www.jaxa.jp/countdown/f15/overview/ibuki_e.html
http://www.jaxa.jp/projects/sat/gosat/index_e.html

Information about the launch vehicle can be found on-line at:
http://www.jaxa.jp/countdown/f15/overview/h2a_e.html

The small satellite palyload will consist of:

Satellite Downlink Beacon Mode Callsign
--------- ----------- ----------- -------- --------------
KAGAYAKI 437.375 437.375 FSK9k6/CW
STARS 437.485/465 437.305/275 FM/CW JR5YBN/JR5YBO
KKS-1 437.445 437.385 AFSK/CW JQ1YYY
PRISM 437.425 437.250 AFSK/GMSK/CW JQ1YCX
SOHLA-1 437.505 437.505 AFSK/CW
SPRITE Scientific observation satellite
SDS-1 Small demonstration satellite

(Ed. note - this table and all links can also be found on the
main AMSAT web page http://www.amsat.org - see the bottom story.)

Masa, JN1GKZ reported that the small satellites are technically not
CubeSats since they are larger in size and each platform is a unique
design. He provided the following links to provide more information
about each satellite.

Kagayaki 31x31x35cm, 28kg
http://www.sorun.co.jp/kagayaki/top.html (sorry, Japanese only)

STARS - Space Tethered Autonomous Robotic Satellite
KU (Mother Satellite) 16x16x25cm
KAI (Daughter Satellite) 16x16x15cm
http://stars1.eng.kagawa-u.ac.jp/english/index.html

KKS-1 Kouku-Kousen-Satellite-1 15x15x15cm, 3kg
http://www.kouku-k.ac.jp/~kks-1 (sorry, Japanese only)

PRISM Pico-satellite for Remote-sensing and Innovative Space Missions
20x20x40cm, 8kg
http://www.space.t.u-tokyo.ac.jp/prism/main-e.html

SOHLA-1
http://www.sohla.com/docs/index.php

They will be launched into a sun synchronous orbit to an altitude of
660km with an inclination of 98.1 degrees. The orbital period is
estimated to be 98 minutes.

[ANS thanks Mineo Wakita, JE9PEL and Masa, JN1GKZ for the
above information]

/EX

SB SAT @ AMSAT $ANS-011.02
VE3NPC and G3VZV Complete Transatlantic AO-51 Mode V/S Contact

AMSAT News Service Bulletin 011.02
>From AMSAT HQ SILVER SPRING, MD.
January 11, 2009
To All RADIO AMATEURS
BID: $ANS-011.02

Clare, VE3NPC and Graham, G3VZV completed a transatlantic contact via AO-51 running an uplink of 145.880 MHz FM and downlink of 2401.200 MHz FM at 10:11 UTC on January 9, 2009. Clare reported the elevation at 5 degrees and a range of 2700 km. The two stations completed a short QSO with clear signals.

Clare says his equipment consists of a 52 turn helix with reflector cup into a DEM preamp and downconverter into SatPC32 controlled FT-736 for 13cm receiving on 2401.200 MHz. He used an FT-847 with 2 watts into 2 x 6 el quagis for 2m for his uplink. Complete information on the 52 turn helix was published in the September/October 2008 AMSAT Journal.

At the other end of the contact Graham, G3VZV says he was operating with an IC910 barefoot. The antennas included WIMO circular polarised VHF (10 dBd) and UHF (12 dBd) crossed quad antennas and the famous G3RUH 600mm/2 foot dish and patchfeed with a Kuhne DB6NT preamp at the feed left over from AO40 operating. The antennas are all at about 40 feet. The satellite reached around 3 degrees elevation. Graham says he did all doppler tuning correction by hand.

In other AO-51 news, AMSAT-NA VP Operations, Drew KO4MA provided updates to the AO-51 Operating Mode Schedule to better support a hamfest operation, and a DXpedition to Namibia.

January 12 - January 18

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

FM Repeater, L/U
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

January 19 - January 25

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 9k6 FM

January 26 - February 1

FM Repeater, L/S
Uplink: 1268.700 MHz FM
Downlink: 2401.200 MHz FM

SSTV Repeater, V/U
Uplink: 145.860 MHz FM SSTV
Downlink: 435.150 MHz FM SSTV

The full AO-51 schedule and Command Team News can be found on-line at: http://www.amsat.org/amsat-new/echo/ControlTeam.php. The AMSAT main web page will also provide a quick status update when the information changes. Operating mode requests can be sent via e-mail to ao51-modes@amsat.org .

[ANS thanks Drew, KO4MA, and congratulates Clare, VE3NPC, and Graham, G3VZV for the above information]

/EX

SB SAT @ AMSAT $ANS-011.03
AMSAT-DC Spring Satellite Workshop Seeks Members for Mission Teams

AMSAT News Service Bulletin 011.03
>From AMSAT HQ SILVER SPRING, MD.
January 11, 2009
To All RADIO AMATEURS
BID: $ANS-011.03

If you find yourself in the Baltimore-Washington DC area this spring you may be interested in learning more and participating in an AMSAT-DC workshop which simulates building, testing, launching, and receiving signals from an Amateur Radio satellite.

AMSAT Area Coordinator for the Maryland-DC area, Pat Kilroy, N8PK is proposing such a workshop for the 2009 AMSAT-DC Meeting and Space Seminar. This meeting is historically held in early spring at or near the NASA Goddard Space Flight Center in Maryland.

Pat is proposing individuals and groups of Amateur Radio operators form teams who compete at this AMSAT-DC workshop to create and operate a satellite mission.

The first groups will build a PICetSat II flight module from a kit of electronic parts on a small printed circuit board. You can see an example of the original PICetSat module at: http://patkilroy.com/simsat/3/

The second groups will set up simple satellite ground stations to operate on 433.920 MHz SSB. These team members need to provide a radio, antenna, and feedline for the 70 cm band.

The third groups will be in charge of setting up and loading software in the computers at the ground stations to decode the telemetry and to analyze it according to a set of instructions.

This event will be perfect for beginners and advanced satellite users alike, all ultimately working together to "launch" the flight module, receive the downlink, and decode the telemetry. Instructions will be provided in advance of the event to enhance preparation.

Pat notes he needs volunteer help to plan and organize this event. A couple of dedicated individuals are needed immediately to start the plans to lock in the workshop meeting space, advertise the event,

to do the footwork needed to process participant applications, and to assure one set of radio and computer stations are on hand and ready at the start of the workshop. To volunteer contact Pat at his e-mail address: n8pk@amsat.org as soon as possible. Pat will convene a conference call for all interested participants to finalize the Workshop details with the volunteers.

Pat requests that interested amateur radio operators RSVP to him via e-mail n8pk@amsat.org and indicate which group you will be most interested in working with. The cost of the Workshop is still "TBD" to cover the materials and meeting space. Those choosing the PICetSat II will keep their completed project.

[ANS thanks Pat, N8PK for the above information]

/EX

SB SAT @ AMSAT $ANS-011.04
ARISS logo items at CafePress

AMSAT News Service Bulletin 011.04
>From AMSAT HQ SILVER SPRING, MD.
January 11, 2009
To All RADIO AMATEURS
BID: $ANS-011.04

Will, KC6ROL says, "The ARISS team is pleased to announce the availability of ARISS logo items through the online store at: http://www.cafepress.com/ariss "

The ARISS logo is being made available as a courtesy to the members of the amateur radio community for personal use. Persons wishing to market items with the ARISS logo need to contact the ARISS Secretary Treasurer, Rosalie White, at k1sto@arrl.org to receive permission.

AMSAT-NA receives 10% from sales through this store. These funds will be used to support the ARISS team activities. Neither ARISS nor AMSAT have any control over items ordered, or returns, through Cafï¿½ Press.

[ANS thanks Will, KC6ROL for the above information]

/EX

SB SAT @ AMSAT $ANS-011.05
Satellite Shorts From All Over

AMSAT News Service Bulletin 011.05
>From AMSAT HQ SILVER SPRING, MD.
January 11, 2009
To All RADIO AMATEURS
BID: $ANS-011.05

+ CQ Magazine announced a new e-mail list has been established to notify readers of the availability of each new issue of WorldRadio magazine, which is converting to a free online-only publication. You may sign up for the list at: http://mailman.sunserver.com/mailman/listinfo/WorldRadio-L . Direct links to this signup page will be posted on both the CQ magazine website at http://www.cq-amateur-radio.com and the old WorldRadio website at http://www.wr6wr.com .

+ SatMagazine, a free web based magazine is available on-line at: http://www.satmagazine.com/cgi-bin/display_edition.cgi . This month's issue is dedicated to Cubesats. AMSAT and Amateur Radio are mentioned.

+ If you participated in OSCAR SKN, please nominate someone you worked for Best Fist now, while you're thinking of it. Remember, your nominee need not have the best fist you heard, just the best of those you worked. Send your nomination to w2rs@amsat.org

+ The first English issue of the free electronic Amateur Radio magazine Ham-Mag is now available and features an article on working satellites

with your HT by K6LCS. The first issue can be downloaded from the maga-
zine's website at http://www.ham-mag.com/ and if you subscribe (free) the magazine will be emailed to you each month.

+ Information about the Southeastern VHF Society Conference April 24-25 in Charlotte, NC can be found at: http://www.w4dex.com/svhfs_2009.htm

+ An upgrade to the RASCAL software to decode DO-64 telemetry is avail-
able at http://www.delfic3.nl/rascal - this page also includes the upgrading instructions if you are moving up from a previous version.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-011.06
ARISS Status Report for the Week of January 5, 2009

AMSAT News Service Bulletin 011.06
>From AMSAT HQ SILVER SPRING, MD.
January 11, 2009
To All RADIO AMATEURS
BID: $ANS-011.06

1. School Contacts

Axam Jatiya Vidyalaya in Guwahati, India had a successful ARISS contact on Wednesday, January 7 at 08:01 UTC via telebridge station W6SRJ in California. Approximately 1300 students are enrolled at the school. All students are taught in Assamese with English taught as a compulsory second language.

Tongfu Road No. 1 Primary School in Guangzhou, Guangdong, P.R. China has been scheduled for an ARISS contact on Saturday, January 17 at 10:23 UTC. The school is over 70 years old with an enrollment of over 1000 students. An amateur radio club was established at the school in 2007 and during the same year a team from this school won the national youngster's amateur radio contest. Elective courses on amateur radio, space technology and ARISS are offered to the students. All grades have participated in essay and cartoon contests to prepare for the contact. Students have written letters to the astronauts and determined the questions to ask. Media coverage is planned with newspapers, tele-vision and the internet.

2. Technopolis Contact Successful

On Saturday, January 3, students visiting Technopolis in Mechelen, Belgium experienced an ARISS contact via telebridge station VK4KHZ in Australia. The students asked Mike Fincke, KE5AIT, 16 questions with time left over to exchange Season's Greetings. Approximately 100 students, parents and ham radio operators attended the event. Three television stations and two newspapers reported on the contact. The audio was fed into the EchoLink AMSAT and JK1ZRW servers and received 29 connections from ten different countries including the Ukraine and Romania. More information on the contact may be found on the ARISS-Europe Web site: http://www.ariss-eu.org/2009_01_03.htm

3. ARISS 25th Anniversary Special Event Update

To celebrate the 25th anniversary of ham radio in space, an ARISS commemorative event will be held during the month of December through mid January. A special certificate is being developed for those who communicate with the ISS, either 2-way direct (with the ISS crew, the digipeater, or cross band repeater), or 1-way reception of SSTV or voice downlink. For more information and an update on this event, see: http://www.rac.ca/ariss/oindex.htm under "Latest News."

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. With that recall the time two silk worms had a race which ended in a tie.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

5. Re: Earthquake In China

Newsgroup: rec.radio.amateur.space
Date: 2009-01-16 20:44:16 UTC
From: dloyd@gmail.com
Message-ID: <kcs1n4h5f8njha15ue8jt6ocbue38d0fig@4ax.com>
Source record: 704
Cross-posted to: alt.ham-radio,alt.ham-radio.digital-voice,alt.ham-radio.dxing,alt.ham-radio.morse,rec.radio.amateur.misc,rec.radio.amateur.space,rec.radio.amateur.policy,rec.radio.amateur.misc

On Tue, 13 May 2008 19:10:24 GMT, "Robert" <edmsecboi@shaw.ca> wrote:

>Just received this through a ARES reflector
>============================
>
>""Strong earthquake hits China, all ham radio operators stand by PLEASE HELP
>TO SPREAD THE FOLLOWING MESSAGE
>
>Strong earthquake hits China, all ham radio operators stand by A Magnitude
>7.8 earthquake hits Sichuan, China on Monday, May 12, 2008 at 06:28:04 UTC.
>Casualties and loss unknown up to now. According to Chinese Radio Sports
>Association, 14.270Mhz, 7.050 and 7.060 Mhz are preserved for amateur radio
>emergency service in the rescue. Please spread this message as far as you
>can and keep the frequencies clean for emergency use. Thank you.
>
>--------------------
>Yesterday, 05:57 PM
>BG8AAS from Chengdu, Sichuan reported that local UHF repeater survived in
>the disaster. It keeps functioning from the 1st minute and more than 200
>local radio hams are now on that repeater. A group of hams from Chengdu has
>headed for Wenchuan, the center of the quake, trying to setup emergency
>communication services there.
>
>BA8AB, also from Chengdu, Sichuan, is active on the 40m emergency frequency.
>Up to now, no further information available from the center zone of the
>quake. There are a few radio amateurs there, but all of the communications
>have been cut out, including amateur radio.
>-------------------------
>Yesterday, 06:58 PM
>Update
>
>According to BG8AAS, local UHF repeater in Chengdu keeps busy running after
>the quake. It helps to direct social vehicles to transport the wounded from
>Dujiangyan, Beichuan, and other regions. Another UHF repeater also starts
>its working in Mianyan, supported by generators.
>However, they are going to face a shortage of gas.
>
>Damage in Chengdu remains in the lowest level, but the situation is very
>very bad in the counties around. A few towns are said to be destroyed
>completely. More than 7000 died in the town of Beichuan. Casualties in
>several other towns are still unknown and not counted in the published
>numbers.
>

>It is a long and sad day.
>-----------------------
>Today, 08:31 AM
>Your attention please! 14.270Mhz is now reserved for ARES in 5.12 earth
>quake in Sichuan, China. Please help to keep this frequency clear.
>
>A group of radio amateurs is now transmitting from Wenchuan, the center of
>quake. Its signal is reported to be very weak. They tried to keep
>communication with BY8AA in Chengdu, seeking for all resources needed.
>During a contact finished a few minutes ago, they were asking for raincoats,
>water, tents, and outdoor living facilities.
>
>PLEASE HELP TO FORWARD THIS MESSAGE TO ALL RELEVANT FORUMS, MAILING LISTS,
>AND NEWS RESOURCES. MEANWHILE, KEEP THE ABOVE FREQUENCY CLEAN FOR EMERGENCY
>COMMUNICATION.
>
>Michael Chen, BD5RV/4""
>

6. Re: Earthquake In Chinaaa

>>very bad in the counties around. A few towns are said to be destroyed
>>completely. More than 7000 died in the town of Beichuan. Casualties in
>>several other towns are still unknown and not counted in the published
>>numbers.
>>
>>It is a long and sad day.
>>-----------------------
>>Today, 08:31 AM
>>Your attention please! 14.270Mhz is now reserved for ARES in 5.12 earth
>>quake in Sichuan, China. Please help to keep this frequency clear.
>>
>>A group of radio amateurs is now transmitting from Wenchuan, the center of
>>quake. Its signal is reported to be very weak. They tried to keep
>>communication with BY8AA in Chengdu, seeking for all resources needed.
>>During a contact finished a few minutes ago, they were asking for raincoats,
>>water, tents, and outdoor living facilities.
>>
>>PLEASE HELP TO FORWARD THIS MESSAGE TO ALL RELEVANT FORUMS, MAILING LISTS,
>>AND NEWS RESOURCES. MEANWHILE, KEEP THE ABOVE FREQUENCY CLEAN FOR EMERGENCY
>>COMMUNICATION.
>>
>>Michael Chen, BD5RV/4""
>>

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

7. WSR-015 AMSAT Weely Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-01-17 04:18:59 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <004201c9785a$b078db30$116a9190$@net>
Source record: 706
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-015.S1
WSR 015 Part 1 01/15/2009

AMSAT NEWS SERVICE BULLETIN 015.S1
FROM AMSAT HQ SILVER SPRING, MD, January 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-015.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: Science Mode - Beacon ONLY
Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01012009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder
```

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/us-FM
L-FM/u-FM
BBS - OFF
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[01152009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS

Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW

435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-015.S2
WSR 015 Part 2 01/15/2009

AMSAT NEWS SERVICE BULLETIN 015.S2
FROM AMSAT HQ SILVER SPRING, MD, January 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-015.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[12182008]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/us-FM
L-FM/u-FM
BBS - OFF
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone

Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[01082009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM

145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]

=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN

/EX

SB SAT @ AMSAT W8ISS ANS-015.S3
WSR 015 Part 3 01/15/2009

AMSAT NEWS SERVICE BULLETIN 015.S3
FROM AMSAT HQ SILVER SPRING, MD, January 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-015.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.

[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT

Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====

PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077

Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS

Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-015.S4
WSR 015 Part 4 01/15/2009

AMSAT NEWS SERVICE BULLETIN 015.S4
FROM AMSAT HQ SILVER SPRING, MD, January 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-015.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

KAGAYAKI (Solan Co.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Reported Frequncy and Modes:
Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

[01152009]
=====
STARS (Kagawa Univ.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Reported Frequncy and Modes:
Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99
[01152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107
[01152009]
=====
PRISM (Tokyo Univ.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97
[01152009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number:

Proposed Launch Date: January 21,2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[01152009]
=====
UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====

PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-015.S5
WSR 015 Part 5 01/15/2009

AMSAT NEWS SERVICE BULLETIN 015.S5
FROM AMSAT HQ SILVER SPRING, MD, January 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-015.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

8. Re: Earthquake In Chinaaa

>>>
>>>Damage in Chengdu remains in the lowest level, but the situation is very
>>>very bad in the counties around. A few towns are said to be destroyed
>>>completely. More than 7000 died in the town of Beichuan. Casualties in
>>>several other towns are still unknown and not counted in the published
>>>numbers.
>>>
>>>It is a long and sad day.
>>>-----------------------
>>>Today, 08:31 AM
>>>Your attention please! 14.270Mhz is now reserved for ARES in 5.12 earth
>>>quake in Sichuan, China. Please help to keep this frequency clear.
>>>
>>>A group of radio amateurs is now transmitting from Wenchuan, the center of
>>>quake. Its signal is reported to be very weak. They tried to keep
>>>communication with BY8AA in Chengdu, seeking for all resources needed.
>>>During a contact finished a few minutes ago, they were asking for raincoats,
>>>water, tents, and outdoor living facilities.
>>>
>>>PLEASE HELP TO FORWARD THIS MESSAGE TO ALL RELEVANT FORUMS, MAILING LISTS,
>>>AND NEWS RESOURCES. MEANWHILE, KEEP THE ABOVE FREQUENCY CLEAN FOR EMERGENCY
>>>COMMUNICATION.
>>>
>>>Michael Chen, BD5RV/4""
>>>
>
>"one useless man is disgrace 2 become a law firm 3 or more become a congress"
>adams
>
>woger you are a Congress all in your own head
>
>http://kb9rqz.bravejournal.com/
>altopia is never used by KB9RQZ
>nor is Konstans@hotmail.com ever
>btw i can be found at
>17366 N River Rd
>Chassel Mi
>
>but the cowards asking lack the gut to act

9. Re: Earthquake In China

Newsgroup: rec.radio.amateur.space
Date: 2009-01-23 01:40:21 UTC
From: dloydlavies@gmail.com
Message-ID: <qt7in45ig56drv97g894srgcis7j1r53au@4ax.com>
Source record: 708
Cross-posted to: alt.ham-radio,alt.ham-radio.digital-voice,alt.ham-radio.dxing,alt.ham-radio.morse,rec.radio.amateur.misc,rec.radio.amateur.space,rec.radio.amateur.policy,rec.radio.amateur.misc

On Fri, 16 Jan 2009 15:44:16 -0500, dloyd@gmail.com wrote:

>On Tue, 13 May 2008 19:10:24 GMT, "Robert" <edmsecboi@shaw.ca> wrote:
>
>>Just received this through a ARES reflector
>>============================
>>
>>""Strong earthquake hits China, all ham radio operators stand by PLEASE HELP
>>TO SPREAD THE FOLLOWING MESSAGE
>>
>>Strong earthquake hits China, all ham radio operators stand by A Magnitude
>>7.8 earthquake hits Sichuan, China on Monday, May 12, 2008 at 06:28:04 UTC.
>>Casualties and loss unknown up to now. According to Chinese Radio Sports
>>Association, 14.270Mhz, 7.050 and 7.060 Mhz are preserved for amateur radio
>>emergency service in the rescue. Please spread this message as far as you
>>can and keep the frequencies clean for emergency use. Thank you.
>>
>>--------------------
>>Yesterday, 05:57 PM
>>BG8AAS from Chengdu, Sichuan reported that local UHF repeater survived in
>>the disaster. It keeps functioning from the 1st minute and more than 200
>>local radio hams are now on that repeater. A group of hams from Chengdu has
>>headed for Wenchuan, the center of the quake, trying to setup emergency
>>communication services there.
>>
>>BA8AB, also from Chengdu, Sichuan, is active on the 40m emergency frequency.
>>Up to now, no further information available from the center zone of the
>>quake. There are a few radio amateurs there, but all of the communications
>>have been cut out, including amateur radio.
>>-------------------------
>>Yesterday, 06:58 PM
>>Update
>>
>>According to BG8AAS, local UHF repeater in Chengdu keeps busy running after
>>the quake. It helps to direct social vehicles to transport the wounded from
>>Dujiangyan, Beichuan, and other regions. Another UHF repeater also starts
>>its working in Mianyan, supported by generators.
>>However, they are going to face a shortage of gas.
>>
>>Damage in Chengdu remains in the lowest level, but the situation is very
>>very bad in the counties around. A few towns are said to be destroyed
>>completely. More than 7000 died in the town of Beichuan. Casualties in
>>several other towns are still unknown and not counted in the published

>>numbers.
>>
>>It is a long and sad day.
>>-----------------------
>>Today, 08:31 AM
>>Your attention please! 14.270Mhz is now reserved for ARES in 5.12 earth
>>quake in Sichuan, China. Please help to keep this frequency clear.
>>
>>A group of radio amateurs is now transmitting from Wenchuan, the center of
>>quake. Its signal is reported to be very weak. They tried to keep
>>communication with BY8AA in Chengdu, seeking for all resources needed.
>>During a contact finished a few minutes ago, they were asking for raincoats,
>>water, tents, and outdoor living facilities.
>>
>>PLEASE HELP TO FORWARD THIS MESSAGE TO ALL RELEVANT FORUMS, MAILING LISTS,
>>AND NEWS RESOURCES. MEANWHILE, KEEP THE ABOVE FREQUENCY CLEAN FOR EMERGENCY
>>COMMUNICATION.
>>
>>Michael Chen, BD5RV/4""
>>

10. WSR-022 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-01-24 05:05:05 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <003001c97de1$492e6260$db8b2720$@net>
Source record: 709
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-022.S1
WSR 022 Part 1 01/22/2009

AMSAT NEWS SERVICE BULLETIN 022.S1
FROM AMSAT HQ SILVER SPRING, MD, January 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-022.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: Science Mode - Beacon ONLY
Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01012009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder
```

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[01222009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS

Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW

435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

L: LHCP

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01222009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-022.S2
WSR 022 Part 2 01/22/2009

AMSAT NEWS SERVICE BULLETIN 022.S2
FROM AMSAT HQ SILVER SPRING, MD, January 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-022.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[12182008]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/us-FM
BBS - L-9k6/u-9k6
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB

145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[01222009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems

Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear
L: LHCP

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.

[01222009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-022.S3
WSR 022 Part 3 01/22/2009

AMSAT NEWS SERVICE BULLETIN 022.S3
FROM AMSAT HQ SILVER SPRING, MD, January 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-022.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]

=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12

[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====

KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz

Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440

Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW

Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-022.S4
WSR 022 Part 4 01/22/2009

AMSAT NEWS SERVICE BULLETIN 022.S4
FROM AMSAT HQ SILVER SPRING, MD, January 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-022.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

KAGAYAKI (Solan Co.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Reported Frequncy and Modes:
Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

[01152009]
=====
STARS (Kagawa Univ.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Reported Frequncy and Modes:
Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99
[01152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107
[01152009]
=====
PRISM (Tokyo Univ.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97
[01152009]
=====

SOHLA-1 (ASTRO TECH.)
Catalog Number:
Proposed Launch Date: January 21,2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[01152009]
=====
UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org

[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-022.S5
WSR 022 Part 5 01/22/2009

AMSAT NEWS SERVICE BULLETIN 022.S5
FROM AMSAT HQ SILVER SPRING, MD, January 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-022.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

11. ANS-025 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-01-26 02:27:23 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001e01c97f5d$99f13e20$cdd3ba60$@net>
Source record: 710
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-025

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* GOSAT + Six SatPals Successfully Launched By Japan
* SKN Best Fist Winners
* Latest AMSAT Awards
* ARISS Status - 19 January 2009

SB SAT @ AMSAT $ANS-025.01
GOSAT + Six SatPals Successfully Launched By Japan

AMSAT News Service Bulletin 025.01
From AMSAT HQ SILVER SPRING, MD.
January 25, 2009
To All RADIO AMATEURS
BID: $ANS-025.01

GOSAT + Six SatPals Successfully Launched By Japan

JAXA GOSAT launch site Japan has launched a satellite whose focus will be to observe the concentration distribution of greenhouse gases from space. The launch of the Ibuki satellite (also known by GOSAT - Greenhouse Gases Observing Satellite) took place on January 23rd at 03:54 UTC from the LP1 launch platform of the Yoshinubo launch complex on Tanegashima. Ibuki has a approximate mass of 1750 kg. Is equipped with two solar panels that generate 3.8 kW. The satellite will operate for 5 years on a sun-synchronous sub-recurrent orbit with a inclination of 98 degrees.
The small satellites with Amateur Radio capabilities launched with this satellite are SDS-1, SOHLA-1, SPRITESAT, PRISM, KKS-1, STARS-1, and the KAGAYAKI. Further information, frequencies and keplerian data can be found on the AMSAT website. We have some new stars to be pointing to and check the website often as more information is passed on.

[ANS thanks Masa, JN1GKZ,for the above information]

/EX

SB SAT @ AMSAT $ANS-025.02
SKN Best Fist Winners

AMSAT News Service Bulletin 025.02
From AMSAT HQ SILVER SPRING, MD.
January 25, 2009
To All RADIO AMATEURS
BID: $ANS-025.02

Many thanks to all who participated in AMSAT's Straight Key Night on OSCAR 2009. Thanks in large part to the popularity of AO-51, we have a record 24 Best Fist winners this year. Participation outside North America was especially high, especially in Asia, a trend which we hope will continue.

The following amateurs each received at least one Best Fist nomination from someone they worked:

AA5PK, I6IBE, JA1COU, JA0CAW, JE4QGF, JG5WLV, JM1LRA, JN1UEP/4, JO3MQY, JR0EFE, K8DID, K9QHO, K0RJS, KN4OK, N3TL, N4ZQ, N5AFV, N7EQF, W6ASL, WA6ARA, WA8HOK, WA8SME, 9A5YY, 9M6YBG

See you next year!

73,

Ray W2RS

[ANS thanks Ray Soifer, W2RS, for the
above information]

/EX

SB SAT @ AMSAT $ANS-025.03
Latest AMSAT Awards

AMSAT News Service Bulletin 025.03
From AMSAT HQ SILVER SPRING, MD.
January 25, 2009
To All RADIO AMATEURS
BID: $ANS-025.03

We are starting the New Year with a new U.S. President and a few new award recipients. A couple of these awards were issued at the end of 2008.

We would like to welcome the following to the satellite community. They have made their first satellite contact and are now members of the AMSAT Satellite Communicators Club.

Gail McDaniel, KB0RZD
Thomas Lepley, KX3TL

The following have earned the AMSAT Satellite Communications Achievement Award.

Ivo Brungera, I6IBE, #476
Clayton Freund, WB5TOI, #477
Gail McDaniel, KB0RZD, #478
Joe Seibert, AL1F, #479

The following have earned the AMSAT South Africa Satellite Communications
Achievement Award.

Ivo Brugnera, I6IBE, #US128
Gail McDaniel, KB0RZD, #US129

To see all the awards visit http://www.amsat.org or http://www.amsatnet.com

Bruce Paige, KK5DO
AMSAT Director Contests and Awards

[ANS thanks Bruce, KK5DO, for the above information]

/EX

SB SAT @ AMSAT $ANS-025.04
ARISS Status - 19 January 2009

AMSAT News Service Bulletin 025.04
From AMSAT HQ SILVER SPRING, MD.
January 25, 2009
To All RADIO AMATEURS
BID: $ANS-025.04

1. Upcoming School Contacts

Children's Hospital of Eastern Ontario in Ottawa, Canada was successful via Amateur Radio on the International Space Station (ARISS) contact on Tuesday, January 20 at 18:06 UTC via telebridge station ON4ISS in Belgium. A space club has been formed at the hospital and those children participating in the club have learned about the ISS via videos, the internet and guest speakers. They learned to use correct radio protocol and have tracked and plotted the course of the ISS. They have also created artwork displayed during the contact. Media coverage of the event was a success.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled for Castor Valley Elementary School in Greely, Ontario, Canada on Tuesday, January 27 at 19:30 UTC. A space club has been formed at the school for grades 1-8. Students from this group will ask questions of the astronaut. Students have learned about the ISS via video, internet and through guest speakers. They have been taught the correct radio protocol and have tracked and plotted the course of the ISS. All classes have taken part in space projects and activities. Media, members of the community, the school board and other dignitaries

have been invited to attend.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with CERAM EAI in Sophia Antipolis, Alpes Maritimes, France. The contact will take place on Thursday, January 29 at 14:54 UTC via telebridge station VK4KHZ in Australia. CERAM University conducts research projects in aviation, engineering and IT. Amateur radio communication has been introduced to students to prepare for the contact. Newspaper and television coverage is anticipated and webcast retransmission is possible.

Ecole & Collï¿½ge Jean XXIII, a private primary & secondary school in Pamiers, France, will experience an Amateur Radio on the International Space Station (ARISS) contact on Friday, January 30 at approximately 13:08 UTC. Five hundred students, ages 3 to 15 years old, attend the school. Students in the third cycle classes (3rd - 5th grades) and those in their second year of secondary school have studied radio communications. Radio operators from "l'Institut de Dï¿½veloppement des Radiocommunications par l'Enseignement" (IDRE) have introduced radio technology to the children. Topics covered included remote command use, introduction to Morse code, ham radio phone contact, distress beacon search, electronic kits, and different ham radio station possibilities. This ARISS activity has been incorporated into the educational subjects of Astronomy, History of Space Exploration, Geography and Writing.

2. Richard Garriott Debrief

An Amateur Radio on the International Space Station (ARISS) program debriefing session was held with spaceflight participant Richard Garriott, W5KWQ, on Tuesday, January 13. Richard gave a status on the ISS Ham equipment onboard the ISS and provided valuable feedback on ARISS operations.

3. Cosmonaut Training Status

Cosmonaut Dmitri Kondratiev received training on the Amateur Radio on the International Space Station (ARISS) equipment. He is scheduled to fly on Expedition 20. Photos of the training session are available on the Energia Web site. See:
http://www.energia.ru/eng/iss/iss20/photo_01-14.html

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

12. ANS-032 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-02-01 03:08:00 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000801c9841a$46768b80$d363a280$@net>
Source record: 711
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-032

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* You Can Tune the Delfi-C3 WebSDR Station
* DELFI-C3 in Science Mode
* Call For Papers/Presentations 35th Eastern VHF/UHF Conference
* SSETI Express on 437.250 MHz?
* Satellite Shorts From All Over
* K6DUE Call Now Part of ISS Amateur Radio Club
* ARISS Status Report for the Week of January 26, 2009

SB SAT @ AMSAT $ANS-032.01
You Can Tune the Delfi-C3 WebSDR Station

AMSAT News Service Bulletin 032.01
>From AMSAT HQ SILVER SPRING, MD.
February 1, 2009
To All RADIO AMATEURS
BID: $ANS-032.01

The Delfi-C3 control team has set up a WebSDR station at their satellite command ground station in Delft, The Netherlands. Their WebSDR station consists of receivers hooked up to a PC and then the internet to enable multiple users to tune in to different signals simultaneously.

At Delft one receiver is for VLF reception and one is currently used for the 70cm satellite segment. Amateur Radio users can access this unique experiment at http://websdr.pa3weg.nl/. Please note that the Delfi team may occasionally retune the receivers to experiment with them.

The hardware was built by Wouter-Jan Ubbels PE4WJ. The WebSDR software was written by Pieter-Tjerk de Boer, PA3FWM. A beta testing phase was begun in November 2008 with a few selected stations. Upon comple-

tion of the test phase the software will be made available to the public on the WebSDR project at http://www.websdr.org.

Many thanks to Pieter-Tjerk de Boer, PA3FWM for providing this software and Wouter Jan Ubbels, PE4WJ for building the receiver and providing the high sample rate sound card!

The Delfi-C3 Team's WebSDR receiver was used to copy and plot the downlink from the STARS satellite. Screen shots of this experiment can be viewed at:
http://www.pa3weg.nl/websdr/STARS_snapshot1_1024.png
http://www.pa3weg.nl/websdr/STARS_snapshot2_1024.png
http://www.pa3weg.nl/websdr/STARS_snapshot3_1024.png
http://www.pa3weg.nl/websdr/STARS_snapshot4_1024.png

[ANS thanks Wouter PA3WEG for the above information]

/EX

SB SAT @ AMSAT $ANS-032.02
DELFI-C3 in Science Mode

AMSAT News Service Bulletin 032.02
>From AMSAT HQ SILVER SPRING, MD.
February 1, 2009
To All RADIO AMATEURS
BID: $ANS-032.02

Wouter Jan Ubbels, PE4WJ reported that the Delfi-C3/DO-64 team this week commanded the satellite into its science mode of operation. After examination of telemetry and user reports the team concluded that the linear transponder is no longer operational.

Delfi-C3/DO-64 has been operating in basic mode (a mode in which only housekeeping mode is transmitted) for a number of months in order to investigate this issue.

To make the best use of remaining satellite function the team switched the satellite back to science mode. This mode yields valuable science data about the Thin Film Solar Cell payload and the Autonomous Wireless Sun Sensor payload which are the primary mission goals. The satellite will use the primary downlink at 145.870MHz, transmitting 1200 Baud AX.25 BPSK data. Note that the satellite reboots on 145.870 MHz whene it comes out of eclipse because there is no battery on board. It is possible, that the satellite may reboot on 145.930 MHz backup downlink. If you hear Delfi-C3 / DO-64 on this frequency, your reports are highly appreciated!

In contrast to basic mode operation where the downlink is on continuously, downlink drop outs are likely to occur in science mode. It is is possible that the satellite may not transmit during the entire pass while in sunlight. If you hear the satellite, your reports are very much appreciated! The Delfi team regularly posts the satellite status

on the Oscar status page at http://oscar.dcarr.org/ and encourage you to do so as well.

Delfi telemetry can be received using the RASCAL program, which is available at http://www.delfic3.nl/rascal At this moment, the total amount of frames has exceeded the 500000 mark which amounts to approximately 72.14 MB reported by Amateur Radio stations.

[ANS thanks Wouter Jan Ubbels, PE4WJ and the Delfi-C3 team for the above information]

/EX

SB SAT @ AMSAT $ANS-032.03
Call For Papers/Presentations 35th Eastern VHF/UHF Conference

AMSAT News Service Bulletin 032.03
>From AMSAT HQ SILVER SPRING, MD.
February 1, 2009
To All RADIO AMATEURS
BID: $ANS-032.03

Conference Chairman and Proceedings Editor Bruce Wood, N2LIV invites you to participate in the 35th Eastern VHF/UHF Conference by presenting a technical paper or submitting one for publication in the Conference Proceedings CD.

The aim of the Conference is to share with our fellow VHFer's and above technical achievements in the field of communication and experimentation. Your attendance is also welcome and a full program is scheduled once again this year. If you are interested in presenting a paper at the conference or submitting one for the Proceedings please contact: Bruce Wood, N2LIV at N2LIV@ARRL.NET.

For the technical presentations, PowerPoint presentations are preferred, but not required. You do not need to be a speaker to have your material included in the proceedings, just interested in sharing with your fellow radio enthusiasts, so please send it along by MARCH 15, 2009.

In addition to our technical presentations and world famous Band sessions we'll have a new LAB Session with Noise Figure, Gain and Power Measurements and a Manufacturers Demo area which will be open Saturday afternoon. We encourage you to bring equipment to test. We'll also have Greg Bonaguide, WA1VUG of Rohde & Schwarz America to manage the preamp noise figure and gain measurement Lab Session (0MHz-50GHz), and Mark Casey, K1MAP to head up the Sunday morning flea market. Art Holmes W1RZF will head the Prize Donations.

Full details can be found at: http://www.newsvhf.com/vhfconf.html

35th EASTERN VHF/UHF CONFERENCE:
APRIL 17-19, 2009
CROWNE PLAZA HOTEL (860)-741-2211

1 BRIGHT MEADOW BLVD. (OFF RT.5)
ENFIELD, CT 06082

[ANS thanks Bruce Wood, N2LIV for the above information]

/EX

SB SAT @ AMSAT $ANS-032.04
SSETI Express on 437.250 MHz?

AMSAT News Service Bulletin 032.04
>From AMSAT HQ SILVER SPRING, MD.
February 1, 2009
To All RADIO AMATEURS
BID: $ANS-032.04

Graham, G3VZV mentioned that Amateur Radio operators may just have a
a very small chance of also hearing signals from XO53 - SSETI Express.

SSETI Express was launched in November 2005 but, due to a failure
within the power supply system on board, signals were only heard for
a few hours. Investigations made after the launch indicate that it is
just possible that the offending short circuit FET devices may, one day,

go open circuit. This would allow power from the solar panels to again
reach the electronics. It can be assumed that the batteries are pretty
useless by now so it would only be likely to operate when in sunlight.

SSETI Express was on 437.250 MHz - the same frequency as is now being
used by Japan's new PRISM satellite launched on January 23, 2009. If
by any chance you hear any strange noises on the frequency to please
let Graham know. In this context, "strange noises" could be either
short bursts of 9k6 data or even some very unusual "CW like" signals.
If these signals are present you may be copying a sub 1 second burst
of AX25 telemetry every 18 seconds or simple on/off telemetry compris-
ing 16 x 100msec carrier pulses which cycle either every 30 seconds
or every 2 minutes.

Graham summarized, "Similar satellite returns have happened in the
past!"

[ANS thanks Graham, G3VZV for the above information]

/EX

SB SAT @ AMSAT $ANS-032.05
Satellite Shorts From All Over

AMSAT News Service Bulletin 032.05
>From AMSAT HQ SILVER SPRING, MD.
February 1, 2009
To All RADIO AMATEURS
BID: $ANS-032.05

+ Satellite DX! Congratulations Joe, K3SZH for 8000 QSOs via AO-7.
Joe was copied in Brazil by PU2BFG in Mode B. Jean, F2IL has now
completed 4000 plus qsos via AO7. Congratulations Zlatko, 9A2SB on
your 1000 plus QSOs on AO7 in modes A&B. On January 15 Clare VE3NPC
worked CU2JX via AO-51 mode L/U.

+ Mike DK3WN has released software for the two new Japanase PRISM and
STARS satellites - CW TLM decoders.
See: http://www.dk3wn.info/software.shtml

+ Universe Today has a series of YouTube videos which give you a
personal tour of the ISS:

http://www.universetoday.com/2009/01/26/take-a-personal-tour-of-the-iss/

+ Bob, WB4APR is asking for help from antenna experts on very-short,
yet broadband antennas. Size: on the order of 3 feet or less;
operating freq: 10 MHz; BW: 500 KHz. Contact wb4apr@amsat.org if
you can help.

+ Congratulations to Roberto, IW5BSF who has been named Coordinator
A.R.I
Satelliti ITALY by the Associazione Radiomatori Italy.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-032.06
K6DUE Call Now Part of ISS Amateur Radio Club

AMSAT News Service Bulletin 032.06
>From AMSAT HQ SILVER SPRING, MD.
February 1, 2009
To All RADIO AMATEURS
BID: $ANS-032.06

Via Amateur Radio Newsline Report 1642 - January 30 2009

The K6DUE callsign of the late NBC Newsman Roy Neal is now the call
of the International Space Station Amateur Radio Club. According
to ARISS International Chairman Frank Bauer, KA3HDO, the call letters
will initially be used for ground station operations but may be used
for other activities in the future.

For those not aware, Roy Neal, K6DUE, spent more than five decades
as a broadcaster specializing in science and aerospace reporting for
the National Broadcasting Company. He is generally credited with
convincing then NASA chief Jess Moore to permit ham gear to be flown
on board the early space shuttle missions. The first of these was STS-9
that carried Spacelab One and Mission Specialist Owen Garriott, W5LFL,
who made the first-ever ham radio contacts from a spacecraft on-orbit.

After Garriott's successful flight, Neal and several others formed the
group known as SAREX -- the Shuttle Amateur Radio Experiment. Later

called the Space Amateur Radio Experiment, it was a program that promoted and supported the use of amateur radio by astronauts in low earth orbit aboard the United States Space Shuttle. This, to communicate with other amateur radio stations around the world especially those in classrooms as a scientific demonstration. It was superseded by the Amateur Radio on the International Space Station or ARISS program that we hear so much about today.

Roy Neal, K6DUE, passed away at age 82 on August 15, 2003, following open heart surgery. On November 11th 2003 the Amateur Radio on the International Space Station organization announced an on-the-air event to commemorate Roy Neal's lifetime of achievements in ham radio. Now, with the acquisition of his K6DUE call letters by the International Space Station Amateur Radio Club, Roy Neal's contributions to manned ham radio operations from space will live on in perpetuity.

[ANS thanks ARNewslineï¿½ and Frank Bauer, KA3HDO for the above information]

/EX

SB SAT @ AMSAT $ANS-032.07
ARISS Status Report for the Week of January 26, 2009

AMSAT News Service Bulletin 032.07
>From AMSAT HQ SILVER SPRING, MD.
February 1, 2009
To All RADIO AMATEURS
BID: $ANS-032.07

1. School Contacts

An ARISS contact was completed with Castor Valley Elementary School in Greely, Ontario, Canada on Tuesday, January 27. A space club at the school was formed for grades 1-8. Students from this group asked questions of the astronaut. Students have learned about the ISS via the internet and videos and through guest speakers. They have been taught the correct radio protocol and have tracked and plotted the course of the ISS. All classes have taken part in space projects and activities. Media, members of the community, the school board and other dignitaries were invited to attend.

An ARISS contact was completed for CERAM EAI in Sophia Antipolis, Alpes Maritimes, France. The contact will take place on Thursday, January 29 via telebridge station VK4KHZ in Australia. CERAM University conducts research projects in aviation, engineering and IT. Amateur radio communications was introduced to students to prepare for the contact.

Ecole & Collï¿½ge Jean XXIII, a private primary & secondary school in Pamiers, France, completed an ARISS contact on Friday, January 30. Five hundred students, ages 3 to 15 years old, attend the school. Students in the third cycle classes (3rd - 5th grades) and those

in their second year of secondary school have studied radio communications. Radio operators from "l'Institut de Dï¿½veloppement des Radiocommunications par l'Enseignement" (IDRE) have introduced radio technology to the children. Topics included remote command use, introduction to Morse code, ham radio phone contact, distress beacon search, electronic kits, and different ham radio station possibilities. This ARISS activity has been incorporated into the educational subjects of Astronomy, History of Space Exploration, Geography and Writing.

Humber College Institute of Technology and Higher Learning in Toronto, Ontario, Canada has been scheduled for an ARISS contact on Monday, February 2 at 17:29 UTC. The school has concluded an extensive research period in how waves travel through space and the Earth's atmosphere and plans to put theory into practice. It has assembled the primary ground station right on the main campus, and it is hoped that it will inspire future students in conducting similar studies. With help from the media department and a school contest, the school has been working to involve every student in this project. With over seventy thousand students, which include both full-time and part-time students, the college is excited to promote this project within the community.

Pilton Bluecoat Junior School in Barnstaple, Devon, England has been scheduled for an ARISS contact on Friday, February 6 at 14:48 UTC. The school has planned an event with the theme "Our Home in Space - The Final
Frontier," in which students learn about Earth as part of the wider universe. All classes took part in the initial selection of questions; the final questions were chosen by the school council. Students have studied the development of the ISS and the history of man in space. Older children have written press releases.

Stï¿½dtisches Gymnasium Herzogenrath in Herzogenrath, North Rhine-Westphalia, Germany has been scheduled for an ARISS contact on Saturday, February 7 at 10:32 UTC. The school has an amateur radio club whose members initiated the ARISS contact. The students prepared a radio exhibition that was shared with the school. The English and History departments have also participated in this activity. Students competed in an essay contest and created projects related to the "Space Race." Newspapers and television stations have been invited to cover the event.

College of Agriculture, Central Agricultural University in Imphhal, Assam, India has been scheduled for an ARISS contact on Sunday, February 8 at 10:06 UTC via telebridge station VK4KHZ in Australia.

2. Children's Hospital Contact Successful

On Tuesday, January 20, patients at the Children's Hospital of Eastern Ontario in Ottawa, Canada spoke with Sandra Magnus, KE5FYE, during an ARISS contact. The children asked 16 questions of the astronaut via telebridge station ON4ISS in Belgium. Due to the hospital's infection protocol, media was kept from the event and

unable to access or interview the students directly. A represent-
ative from another children's hospital in Calgary was present and
was very impressed with the event; he plans to submit an ARISS
application for his hospital. The audio was fed into the EchoLink
AMSAT and JK1ZRW servers and into the IRLP Discovery reflector 9010.
EchoLink received 20 connections from 14 countries, including one
link node and two repeaters.

3. Astronaut Training Status

On Friday, January 23, Jeff Williams, KD5TVQ, received a refresher
course covering the ARISS radio equipment and operations. Williams
is scheduled to launch to the ISS in September and will take over
as commander in November 2009.

4. General Voice Contacts

Mike Fincke, KE5AIT and Yuri Lonchakov, RA3DT made several general
voice contacts over the last week. Among those contacted were
stations in France, Spain, Chile, Italy and the Netherlands.

5. ARRL QST Covers ARISS News

The American Radio Relay League (ARRL) printed 4 ARISS news items
in its February 2009 issue of QST.

On page 12, the "In Brief" column (a "what's been happening at ARRL
recently) mentions ARISS' 25th commemorative activities

"Inside Hq -- 2008 Year-End Review" (page 13) mentions that ARISS
"celebrated its 350th QSO (contact)."

A story on pages 54-55, "Amateur Radio and Public Education Make for
a Bright Future" is about a Kentucky high school teacher who included
amateur radio in his science curriculum. There is one small part
about him being excited about his students being able to garner an
ARISS contact.

The "75, 50, and 25 Years Ago" column on page 102 shows the cover
of February 1984 QST with Owen Garriott on the front, and the column
lists two bullet items for the February 1984-25 years-ago section:
the first being about Owen on the cover, and the second being that
QST printed an interview of Owen, and it says: "We all hope that
Amateur Radio will continue to be a part of the space shuttle missions."

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office. With that recall
the amateur radio operator who thought he saw an eye doctor on an Alas-

kan island, but it was just an optical Aleutian.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

13. WSR-029 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-02-01 03:08:59 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c9841a$68e9aad0$3abd0070$@net>
Source record: 712
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-029.S1
WSR 029 Part 1 01/29/2009

AMSAT NEWS SERVICE BULLETIN 029.S1
FROM AMSAT HQ SILVER SPRING, MD, January 29, 2009
TO ALL RADIO AMATEURS
BID: $ANS-029.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: Science Mode - Beacon ONLY
Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01012009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder
```

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - L-FM/s-FM
V-SSTV/u-SSTV
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[01292009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS

Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[01012009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN

/EX

SB SAT @ AMSAT W8ISS ANS-029.S2
WSR 029 Part 2 01/29/2009

AMSAT NEWS SERVICE BULLETIN 029.S2
FROM AMSAT HQ SILVER SPRING, MD, January 29, 2009
TO ALL RADIO AMATEURS
BID: $ANS-029.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[12182008]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - L-FM/s-FM
V-SSTV/u-SSTV
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[01292009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1

Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM

Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-029.S3
WSR 029 Part 3 01/29/2009

AMSAT NEWS SERVICE BULLETIN 029.S3
FROM AMSAT HQ SILVER SPRING, MD, January 29, 2009
TO ALL RADIO AMATEURS
BID: $ANS-029.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK

[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B

Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none

70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT

Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Non-operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[01292009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077

Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS

Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-029.S4
WSR 029 Part 4 01/29/2009

AMSAT NEWS SERVICE BULLETIN 029.S4
FROM AMSAT HQ SILVER SPRING, MD, January 29, 2009
TO ALL RADIO AMATEURS
BID: $ANS-029.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

KAGAYAKI (Solan Co.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Reported Frequncy and Modes:
Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

[01152009]
=====
STARS (Kagawa Univ.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Reported Frequncy and Modes:
Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99
[01152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107
[01152009]
=====
PRISM (Tokyo Univ.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97
[01152009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number:

Proposed Launch Date: January 21,2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[01152009]
=====
UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====

PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-029.S5
WSR 029 Part 5 01/29/2009

AMSAT NEWS SERVICE BULLETIN 029.S5
FROM AMSAT HQ SILVER SPRING, MD, January 29, 2009
TO ALL RADIO AMATEURS
BID: $ANS-029.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

14. WSR-036 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-02-07 04:12:16 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <003601c988da$3a446a20$aecd3e60$@net>
Source record: 713
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-036.S1
WSR 036 Part 1 02/05/2009

AMSAT NEWS SERVICE BULLETIN 036.S1
FROM AMSAT HQ SILVER SPRING, MD, February 05, 2009
TO ALL RADIO AMATEURS
BID: $ANS-036.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: Science Mode - Beacon ONLY
Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01012009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder
```

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[02052009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS

Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[01012009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN

/EX

SB SAT @ AMSAT W8ISS ANS-036.S2
WSR 036 Part 2 02/05/2009

AMSAT NEWS SERVICE BULLETIN 036.S2
FROM AMSAT HQ SILVER SPRING, MD, February 05, 2009
TO ALL RADIO AMATEURS
BID: $ANS-036.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[12182008]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[020592009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-036.S3
WSR 036 Part 3 02/05/2009

AMSAT NEWS SERVICE BULLETIN 036.S3
FROM AMSAT HQ SILVER SPRING, MD, February 05, 2009
TO ALL RADIO AMATEURS
BID: $ANS-036.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)

Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz

1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Non-operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[01292009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====

UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]

=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-036.S4
WSR 036 Part 4 02/05/2009

AMSAT NEWS SERVICE BULLETIN 036.S4
FROM AMSAT HQ SILVER SPRING, MD, February 05, 2009
TO ALL RADIO AMATEURS
BID: $ANS-036.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

KAGAYAKI (Solan Co.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Reported Frequncy and Modes:
Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

[01152009]
=====
STARS (Kagawa Univ.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Reported Frequncy and Modes:
Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99
[01152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107
[01152009]
=====
PRISM (Tokyo Univ.)
Catalog Number:
Proposed Launch Date: January 21, 2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97
[01152009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number:
Proposed Launch Date: January 21,2009

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[01152009]
=====
UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/

[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-036.S5
WSR 036 Part 5 02/05/2009

AMSAT NEWS SERVICE BULLETIN 036.S5
FROM AMSAT HQ SILVER SPRING, MD, February 05, 2009
TO ALL RADIO AMATEURS
BID: $ANS-036.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

15. Radio Meteor Obs. Bull. January 2009 Quadrantids

Newsgroup: rec.radio.amateur.space
Date: 2009-02-07 16:55:55 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <n5fro4h06obdngtir74ajteegv9o76q38v@4ax.com>
Source record: 714
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 186 of January 2009 (86 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0901.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

16. ANS-039 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-02-08 03:38:44 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201c9899e$b6f1ae60$24d50b20$@net>
Source record: 715
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-039

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT India Sponsors VO-52 Operating Certificate
* Volunteers Needed for AMSAT-DC Spring Conference
* George Caswell, W1ME Silent Key
* Satellite Shorts From All Over
* ARISS Status Report for the Week of February 2, 2009

SB SAT @ AMSAT $ANS-039.01
AMSAT India Sponsors VO-52 Operating Certificate

AMSAT News Service Bulletin 039.01
>From AMSAT HQ SILVER SPRING, MD.
February 8, 2009
To All RADIO AMATEURS
BID: $ANS-039.01

Nitin, VU3TYG announced AMSAT India will issue a certificate for Amateur Radio operators who establish two way contact thru VO-52 between January 26, 2009 until May 5, 2009.

The first fifty certificates have been sponsored by a well-wisher which includes postage. After the 50 certificates have been issued a fee will apply. AMSAT India will announce these details when the information is available.

Please send your QSL card containing the details of the QSO on VO-52 AMSAT India at the following address:

AMSAT India (Regd.)
No. 201, 2nd Main Road,
Mahalakshmi Layout,
Bangalore 560086
India.

Also include your mailing address where you would like to have the certificate sent to.

[ANS thanks Nitin, VU3TYG for the above information]

/EX

SB SAT @ AMSAT $ANS-039.02
Volunteers Needed for AMSAT-DC Spring Conference

AMSAT News Service Bulletin 039.02
>From AMSAT HQ SILVER SPRING, MD.
February 8, 2009
To All RADIO AMATEURS
BID: $ANS-039.02

Maryland-DC AMSAT Area Coordinator, Pat Kilroy, N8PK will kick off planning sessions for the next AMSAT-DC gathering. If you would like to help with this event please send Pat an RSVP e-mail soon to n8pk@amsat.org. Pat will send you the call-in telephone number for the planning conference calls.

Pat says, "Our first planning session conference call will take place during the week of February 8-14, most likely on Thursday evening at 7:00 PM EST. The first agenda item will be to discuss the location and date of the all-day event."

Pat is proposing individuals and groups of Amateur Radio operators form teams who compete at this AMSAT-DC workshop to create and operate a simulated satellite mission. The first groups will build a PICetSat II flight module from a kit of electronic parts on a small printed circuit board. The second groups will set up simple satellite ground stations. The third groups will be in charge of setting up and loading software in the computers at the ground stations to decode the telemetry and to analyze it according to a set of instructions.

This event will be perfect for beginners and advanced satellite users alike, all ultimately working together to "launch" the flight module, receive the downlink, and decode the telemetry. Instructions will be provided in advance of the event to enhance preparation.

More details will follow as planning commences!

[ANS thanks Pat Kilroy, N8PK for the above information]

/EX

SB SAT @ AMSAT $ANS-039.03
George Caswell, W1ME Silent Key

AMSAT News Service Bulletin 039.03
>From AMSAT HQ SILVER SPRING, MD.
February 8, 2009
To All RADIO AMATEURS
BID: $ANS-039.03

AMSAT received the sad news that George Caswell, W1ME died peacefully at the Maine Veterans Home on February 3rd after a lengthy illness.

George was a very active AMSAT Area Coordinator in Northern New England. For a number of years, George conducted a weekly AMSAT net on a number of linked repeaters stretching from Rhode Island to Maine (including one on top of Mt. Washington).

AMSAT President Barry Baines, WD4ASW reflected, "He brought enthusiasm, knowledge and a sense of humor to these nets which attracted check-ins. Needless to say, those 'wide area' nets attracted numerous newcomers to what we do, not to mention generating countless new AMSAT memberships as a direct result. George enjoyed awarding 'Certificates of Recognition' to those that participated in these nets since he knew that 'wall paper' was one way to foster continued interest. I still have the 'Certificate of Recognition' signed by George in 1996 which he gave me when I visited him and participated in one of his nets."

George served as a recruiter for AMSAT's Field Operations Team, encouraging AMSAT members to become area coordinators and to establish an AMSAT presence in their local areas. A number of area coordinators in Massachusetts, Rhode Island, New Hampshire and Maine were recruited and encouraged by George. He also represented AMSAT at various hamfests in Northern New England.

George and his wife Caroline, W1MRE brought AMSAT to Maine as they teamed up to organize the 18th AMSAT Space Symposium that was held in Portland, ME October, 2000. At this event people outside of New England and the Field Ops team got to know George.

George set up and operated the first ISS school contact to take place in Maine. In February, 2005, he set up his radio station at the Rockland, ME high school as part of a PenBay radio club activity and contacted the International Space Station, allowing high school students to communicate with the astronauts aboard. It was one of the highlights of his amateur radio involvement.

Barry sums it up, "For many of us, George Caswell, W1ME was the face of AMSAT in New England. His kindness, gracious outlook on life, infectious enthusiasm for satellite operations and amateur radio in general touched many people and made a difference in their lives."

Donations in George's Memory may be made to:
Alzheimer's Association Maine Chapter 170 US Route 1, Suite 250
Falmouth, ME 04105.

[ANS thanks Barry Baines, WD4ASW for the above information]

/EX

SB SAT @ AMSAT $ANS-039.04
Satellite Shorts From All Over

AMSAT News Service Bulletin 039.04
>From AMSAT HQ SILVER SPRING, MD.
February 8, 2009
To All RADIO AMATEURS
BID: $ANS-039.04

+ YouTube video of the ARISS contact with Ellis Elementary School in Belleville, Illinois, is available on-line at:

http://www.youtube.com/watch?v=P2TuJyNXx0c&eurl=http://livingstlouis.

wordpress.com/2009/01/22/living-st-louis-video-ham-radio/&feature player_embedded (watch line wrap on very long URL).

+ Audio and video from the Humber College, Toronto contact with the ISS is available at:
http://www.cbc.ca/radioshows/AS_IT_HAPPENS/20090202.shtml (audio)
http://www.theglobeandmail.com/servlet/story/RTGAM.20090202.wvspacestation0202/VideoStory/Technology/home?pid=RTGAM.20090202.wcollegeradio0202 (watch the line wrap).

+ Paul Willmott, VP9MU released an updated Reference Manual for the General Astrodynamics Library (GAL) at:
http://homepage.mac.com/pclwillmott/GAL/index.html

+ Listen for Andy, W5ACM/MM between February 8 and February 14 via AO-51. He hopes to put some new grids on the air while we are out on the water between Galveston, Costa Maya, Cozumel and Roi Tan. Radio will be a a DJ-580Ts with several LiPo battery packs.

+ A video tour of the Altair Lunar Lander is available at:
http://tinyurl.com/d5btqx (via UniverseToday).

+ NASA and Google announced the release of a new Mars mode in Google Earth that brings to everyone's desktop a high-resolution, three-dimensional view of the Red Planet. Additional information is on-line at http://tinyurl.com/b567u9 (Via MarsDaily).

+ An interesting article about a planned 500 meter diameter radio telescope in China is available on-line at: http://tinyurl.com/b8sv2k
In contrast the radio telescope at Arecibo Observatory in Puerto Rico is 305 meters in diameter (via UniverseToday).

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-039.05
ARISS Status Report for the Week of February 2, 2009

AMSAT News Service Bulletin 039.05
>From AMSAT HQ SILVER SPRING, MD.
February 8, 2009
To All RADIO AMATEURS
BID: $ANS-039.05

1. School Contacts

Humber College Institute of Technology and Higher Learning in Toronto, Ontario, Canada completed an ARISS contact on Monday, February 2. It has assembled the primary ground station right on the main campus, and it is hoped that it will inspire future students in conducting similar studies.

Pilton Bluecoat Junior School in Barnstaple, Devon, England completed an ARISS contact on Friday, February 6. The school has planned an event with the theme "Our Home in Space - The Final Frontier," in which students learn about Earth as part of the wider universe.

Sti¿½dtisches Gymnasium Herzogenrath in Herzogenrath, North Rhine-Westphalia, Germany completed an ARISS contact on Saturday, February 7. The school has an amateur radio club whose members initiated the ARISS contact.

College of Agriculture, Central Agricultural University in Imphhal, Assam, India has been scheduled for an ARISS contact on Sunday, February 8 at 10:06 UTC via telebridge station VK4KHZ in Australia.

2. Russian Students Radio ISS

Students attending the Palace of Children's and Youth's Creativity in Tver, Russia experienced a successful ARISS contact on Tuesday, January 27. The children prepared 9 questions to ask cosmonaut Yuri Lonchakov, RA3DT. Approximately 300 people attended the event including cosmonaut S. Treshchev and ARISS delegate Sergey Samburov. The Governor of Tver Region, Dmitry Vadimovich Zelenin was also invited. The contact was made possible through the Amateur Radio Club, "Club-22," and its chairman, Sergey Kemov, RA3IS.

3. Successful Canadian Elementary School Contact

On Tuesday, January 27, Mike Fincke, KE5AIT, participated in an ARISS contact with students attending Castor Valley Elementary School in Greely, Ontario, Canada. He answered all 16 questions posed to him by the youth as an audience of 750 students, parents and guests looked on. The students initiated the contact, thanked Mike for the contact midway through the session, and finished the rest of the questions. Media covered the event and the school was featured on the CTV 6 o'clock news.

4. French University Contact Successful

Students attending CERAM EAI in Sophia Antipolis, France participated in an ARISS contact on Thursday, January 29 via telebridge station VK4KHZ in Australia. Students were able to ask 15 questions of Mike Fincke, KE5AIT, before interference made the downlink unreadable. Approximately 50 students, faculty members and guests witnessed the event which was covered by the media. The audio was fed into the EchoLink AMSAT and JK1ZRW servers and received 11 connections from 9 different countries. A short write up and contact audio have been

posted to the ARISS-Europe Web site.
See: http://www.ariss-eu.org/2009_01_30.htm

5. French School Contact Successful

Youth attending Ecole & Collï¿½ge Jean XXIII, a private primary & secondary school in Pamiers, France, experienced an ARISS contact on Friday, January 30. Mike Fincke, KE5AIT, answered 18 questions prepared for him by the students as 150 people gathered to watch. Media coverage included La Gazette Ariegeoise, Le Petit Journal, France 3 and Ariege News. The event is also expected to be reported by La Depeche du Midi, Radio Transparence, Radio Montaillou and Sud Radio. A summary with audio has been posted to the ARISS-Europe Web site. See: http://www.ariss-eu.org/2009_01_31.htm

6. General Radio Operations

Mike Fincke, KE5AIT and Yuri Lonchakov, RA3DT made general voice contacts over the last week. Among those contacted were stations in the U.S., Canada, Russia and Brazil. They also had the radio running in packet mode and crossband repeater mode and transmitted several Slow Scan Television (SSTV) images.

7. ARISS International Team Meeting Held

The ARISS team held its monthly teleconference on January 27. Among the agenda items discussed were the ARISS Face to Face Meeting to be held in the Netherlands in June, Richard Garriott's mission and SuitSat-2 status. Minutes have been posted. See: https://www.rac.ca/ariss/arisstel2009-01-27.htm

8. K6DUE Replaces NN1SS

K6DUE, callsign of the late Roy Neal, will now be used for the International Space Station Amateur Radio Club, replacing the Greenbelt, Maryland telebridge ground station callsign, NN1SS. Neal was instrumental in persuading NASA to fly amateur radio on the space shuttle and helped establish the Shuttle Amateur Radio Experiment (SAREX) working group, which ultimately led to the internationally-based ARISS program. The story was reported on the Amateur Radio Newsline.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. With that keep in mind if you show me a piano falling down a mine shaft I'll show you A-flat miner.

73,
This week's ANS Editor,

JoAnne Maenpaa, K9JKM

17. ANS-046 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-02-19 21:58:01 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001901c992dd$1432c8b0$3c985a10$@net>
Source record: 716
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-046

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Scratch 2 Satellites
* Dieter Schliemann, KX4Y SK
* DX Expedition to Desecheo
* Listen for KAGAYAKI Satellite
* ARISS Status Report for the Week of February 9, 2009

SB SAT @ AMSAT $ANS-046.01
Scratch 2 Satellites

AMSAT News Service Bulletin 046.01
>From AMSAT HQ SILVER SPRING, MD.
February 15, 2009
To All RADIO AMATEURS
BID: $ANS-046.01

CAPE CANAVERAL, Fla. - Two big communications satellites collided in the first-ever crash of two intact spacecraft in orbit, shooting out a pair of massive debris clouds and posing a slight risk to the international space station.

NASA said it will take weeks to determine the full magnitude of the crash, which occurred nearly 500 miles over Siberia on Tuesday.

"We knew this was going to happen eventually," said Mark Matney, an orbital debris scientist at Johnson Space Center in Houston.

NASA believes any risk to the space station and its three astronauts is low. It orbits about 270 miles below the collision course. There also should be no danger to the space shuttle set to launch with seven astronauts on Feb. 22, officials said, but that will be re-evaluated in the coming days.

The collision involved an Iridium commercial satellite, which was launched in 1997, and a Russian satellite launched in 1993 and believed to be nonfunctioning. The Russian satellite was out of control, Matney said.

The Iridium craft weighed 1,235 pounds, and the Russian craft nearly a ton.

No one has any idea yet how many pieces were generated or how big they might be.

"Right now, they're definitely counting dozens," Matney said. "I would suspect that they'll be counting hundreds when the counting is done."

[ANS thanks Drew, KO4MA for the above information]

/EX

SB SAT @ AMSAT $ANS-046.02
Dieter Schliemann, KX4Y SK

AMSAT News Service Bulletin 046.02
>From AMSAT HQ SILVER SPRING, MD.
February 15, 2009
To All RADIO AMATEURS
BID: $ANS-046.02

Frank Bauer, KA3HDO wrote on behalf of the Amateur Radio on the International Space Station (ARISS) program, "It is with great sadness that I announce the passing of Dieter Schliemann, KX4Y."

Frank continued, "Those that knew Dieter recognized that he was a 'class act', a great gentleman and colleague who will be sorely missed by all. Dieter was instrumental in leading and supporting many key activities in AMSAT and on the ARISS program."

For ARISS, Dieter led the school contact IRLP/Echolink initiative. Through this amateur radio VOIP system, Dieter and his team substantially extended the reach of the school contacts. And through his efforts, tens of thousands of school students and ham radio operators, world-wide, could listen to other school contacts, enhancing education and giving all a better understanding of what it is like to live and work on the ISS.

Frank remembers, "Dieter's diplomacy, teambuilding skills and attention to the details were impeccable and were well respected within the team. He rose to the challenge when I asked him to lead the IRLP/Echolink team. At the time, there were strong, divergent opinions on the use of IRLP and Echolink on ARISS. He singlehandedly developed a cohesive team that is producing great results and are enjoying working together.

Over the past couple of years, Dieter fought a long and courageous battle with cancer. A month ago, all of us thought he was on the road to recovery. Unfortunately, that did not come to pass. Through it all,

Dieter remained the gentle, caring person that we all have grown to love. And during his illness, he remained dedicated to his AMSAT and ARISS causes and responsibilities. When he received the surprising news from the doctors that he had only two weeks to live and despite being weak from a long hospitalization, Dieter got on the e-mail and worked a transition plan to ensure the IRLP/Echolink capabilities on ARISS continues. What a great, compassionate, and loving human being!"

Frank first met Dieter behind the AMSAT Booth at Dayton, where he was one of the mainstay individuals supporting AMSAT efforts at the Hamvention. Reflecting on Dieter's support to AMSAT, AMSAT Board Member Gould Smith, WA4SXM, stated, "Two years ago Dieter told me that the only reason he came to Dayton was to work in the AMSAT booth and to talk with people about AMSAT". And he supported AMSAT in many other ways, including his efforts as an Area Coordinator, where he mentored a countless number of satellite enthusiasts. We are eternally grateful for all Dieter has done for AMSAT and the ARISS program. And we will miss him dearly."

AMSAT 20 Meter Net Control, Keith Pugh, W5IU remininsced, "My memories of Dieter started during the AO-10 and AO-13 heyday. Dieter was an excellent example of the ideal contributor to our marvelous hobby. He constantly provided positive ideas and assistance for every phase of the AMSAT and ARISS efforts. Never complaining, always jumping in and doing what he suggested - not saying 'why don't you do this.' He will be truly missed by everyone and deserves a special place in Amateur Radio Heaven."

Frank concluded, "On behalf of the ARISS and AMSAT teams, we wish to express our deepest sympathy to the Schliemann family and friends. We think of especially his wife Tina and his good friend Ron Arsenault, N1NYR, who helped Dieter and the Schliemann family throughout Dieter's long illness."

Alan Sieg WB5RMG went to the visitation and described his experience, "This evening I introduced myself to Dieter's wife Tina. We had never met. When she saw my AMSAT badge she grabbed onto my hand and held it for at least 10 minutes, like we were long-lost friends. She said she was so glad that AMSAT could come to the visitation, and went on to tell me about all the wonderful email and phone calls she has received from all over the world. She understood what AMSAT meant to Dieter, and was so proud that the people of AMSAT recognized what a good man he was. She asked me to let everyone know how thankful she was that Dieter had so many wonderful friends ... Thank You All" from Tina"

In lieu of flowers donations may be made to Hospice of North Alabama, LLC, 311 Bob Wallace Ave., Ste. 101, Huntsville, AL 35805 or to your favorite charity.

[ANS thanks Frank KA3HDO, Gould WA4SXM, Keith W5IU for the above information]

/EX

SB SAT @ AMSAT $ANS-046.03
DX Expedition to Desecheo

AMSAT News Service Bulletin 046.03
>From AMSAT HQ SILVER SPRING, MD.
February 15, 2009
To All RADIO AMATEURS
BID: $ANS-046.03

Updates from www.kp5.us indicate that at least part of the team is now on Desecheo, and will soon begin HF operations as K5D. Thanks to the support of AMSAT-NA, the team is equipped with a Kenwood D7 HT and Arrow antenna, as well as training on using the FM satellites. AMSAT-NA would like to thank Doug Faunt N6TQS, Tim Lilley N3TL, and Patrick Stoddard, WD7EWK for their generous donations of equipment for this and future DXpedition, as well as Keith Pugh, W5IU for training assistance.

Satellite operation is not expected to begin until the second half of the DXpedition, and then only on an as available basis. A second repeater on AO-51 (145.88/435.150) will be activated on February 16th and reserved -only- for contacts with K5D while within sight of the island. K5D may be active on either AO-51 repeater, SO-50 or the ISS voice repeater modes if available. Operation on the transponder satellites is not expected unfortunately. Outside of range of Desecheo, users are encouraged to operate under the standard AO-51 QRP rules. These guidelines are 10 watts output or less, to omnidirectional or handheld antennas only. Telemetry collection operations on AO-51 will occasionally interrupt the 435.150 downlink on US west coast passes not in range of Desecheo.

Users attempting contact with K5D should be aware the the DXpedition does not wish to exchange grid squares during the QSO in order to allow more operators the chance for a QSO. Their grid square is FK68, same as most of Puerto Rico. Please be courteous and limit yourself to one QSO. Logs are expected to be available online at http://www.kp5.us/ . Many prolific DXpeditioners are on this trip, and a positive experience with satellite may result in increased participation by future expeditions.

Good Luck on working a new one on satellite!

73, Drew Glasbrenner, KO4MA
AMSAT-NA VP Operations

[ANS thanks Drew, KO4MA for the above information]

/EX

SB SAT @ AMSAT $ANS-046.04
Listen for KAGAYAKI Satellite

AMSAT News Service Bulletin 046.04
>From AMSAT HQ SILVER SPRING, MD.
February 15, 2009

To All RADIO AMATEURS
BID: $ANS-046.04

Listen for KAGAYAKI Satellite

The KAGAYAKI satellite has not been heard since it was launched
with Japan's January 23 GOSAT satellite. KAGAYAKI was to transmit
morse code on FM after separation from the H-2A booster.

If operational KAGAYAKI should be tranmitting morse code on FM
or 9600bps packet at 437.375MHz. The command team thinks the sat-
ellite'soutput power may very low because the antenna or solar
panel has not extended properly. Ground controllers have been
searching for a downlink signal using a spectrum analyzer.

Object D is thought to be KAGAYAKI:

OBJECT D
1 33495U 09002D 09036.75334341 -.00000021 00000-0 46489-5 0 433
2 33495 098.0277 148.2199 0008919 016.5422 343.6081 14.70127932 1978

Please monitor for KAGAYAKI. If heard please send your report to Masa,
JN1GKZ (m-arai@a.email.ne.jp) and he will relay the information to the
command station.

English web site is available.
http://www.sorun.co.jp/e_kagayaki/top.html

[ANS thanks Masa, JN1GKZ for the above information]

/EX

SB SAT @ AMSAT $ANS-046.05
ARISS Status Report for the Week of February 9, 2009

AMSAT News Service Bulletin 046.05
>From AMSAT HQ SILVER SPRING, MD.
February 15, 2009
To All RADIO AMATEURS
BID: $ANS-046.05

Amateur Radio on the International Space Station (ARISS) Status Report
February 9, 2009

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact was
planned & completed for Istituto Comprensivo Pietrasanta1-Scuola
Secondaria 1ï¿½ Grado "Padre Eugenio Barsanti" in Pietrasanta, Lucca,
Italy on Tuesday, February 10 at 10:24 UTC. Students have been learning
about the planets, planetary systems, rocket technology and radio
communications. They have applied their knowledge of English in writing
and rehearsing space related questions for the astronaut. They have
studied the history of spaceflight and have written essays on space
related topics. They have also learned about world geography and have

developed cooperation and teamwork skills.

An Amateur Radio on the International Space Station (ARISS) contact was scheduled with Alexandroupolis School of Special Education and 11th Alexandroupolis Primary School in Alexandroupolis, Greece. The contact took place on Wednesday, February 11 at 07:43 UTC. Astronomy and amateur radio lectures were given in preparation for the event. Special attention has been given to the role of humanity and science and to the every day life of an astronaut. The ISS courses have been based on ESA's education tool "ISS Education Kit."

2. Canadian Contact Successful

On Monday, February 2, students from Humber College Institute of Technology and Higher Learning in Toronto, Ontario, Canada participated in an Amateur Radio on the International Space Station (ARISS) contact. Approximately 100 students gathered in the lab where the radio gear was built and watched as students posed 12 questions to Sandra Magnus, KE5FYE. There was national coverage of the event and it was broadcasted on morning television and radio - Canada AM (CTV Network). The Toronto Star and Toronto Sun were also present. The audience reached in Toronto was estimated to be over 3,000,000.

To view the Toronto Sun article, go to:
http://www.torontosun.com/news/torontoandgta/2009/02/02/8237126.html

Toronto Star's story may be found at:
http://www.thestar.com/sciencetech/article/581309

For CTV coverage, see:
http://www.ctv.ca/servlet/ArticleNews/story/CTVNews/20090203/students_spa
ce_
AM_090203/20090203?hub=TopStories

The Canadian Broadcasting Corporation (CBC) network carried a 14 minute piece on the Humber College contact that included an 8 minute interview with one of the lead students, followed by a 6 minute clip of the students and Sandy. The story also ran on the show "As it Happens," which is part of CBC's national network program feed and airs coast to coast beginning at 18:30 in each respective time zone. It was then posted on the Web:
http://www.cbc.ca/radioshows/AS_IT_HAPPENS/20090202.shtml (The interview starts at approximately 16:50 in part one. Contact audio runs from 21:30 to 24:00.)

The February 3 issue of the American Institute of Aeronautics and Astronautics' (AIAA) Daily Launch also picked up on the news. It posted a summary, "College Students Contact ISS with Home Built Antenna," citing and providing a link to the CBC article:
http://www.cbc.ca/technology/story/2009/02/02/students-iss.html

3. UK Students Radio ISS

Students attending Pilton Bluecoat Junior School in Barnstaple, Devon, England experienced a successful Amateur Radio on the International Space Station (ARISS) contact on Friday, February 6. Sandra Magnus, KE5FYE answered 20 questions posed to her by ten children as an audience of approximately 260 students and guests looked on. Two newspapers covered the event. The contact video is available for viewing. Go to: http://www.it-sparkles.co.uk/ARISS/pilton.aspx

4. ARISS Contact with German School, a Success

On Saturday, February 7, Stï¿½dtisches Gymnasium Herzogenrath in North Rhine-Westphalia, Germany participated in an Amateur Radio on the International Space Station (ARISS) contact with Mike Fincke, KE5AIT. Students were able to have 18 questions answered before the ISS went over the horizon. Approximately 350 students, teachers and parents were in attendance. The national television channel WDR, two radio stations WDR-Radio and Radio Aachen, and a few local newspapers covered the event. The audio was also fed into the EchoLink AMSAT server. The Aachener Zeitung article (in German) may be found here: http://www.az-web.de/lokales/nordkreis-detail-az/803788/ Funk-AG-des-Gymnasiums-Herzogenrath-spricht-live-mit-der-ISS

5. Assam, India Students Speak with Mike Fincke

The College of Agriculture, Central Agricultural University in Imphal, Assam, India took part in a successful Amateur Radio on the International Space Station (ARISS) contact on Sunday, February 8 via telebridge station VK4KHZ in Australia. Fourteen of the 16 questions prepared for the contact were answered by Mike Fincke, KE5AIT. The audio was fed into the EchoLink AMSAT and JK1ZRW servers and received 9 connections from 6 countries. An article ran in the Morung Express. See: http://www.morungexpress.com/regional/13605.html

6. Article Posted on Axam Jatiya Vidyalaya Contact

On January 7, an Amateur Radio on the International Space Station (ARISS) contact was conducted between Mike Fincke, KE5AIT and Axam Jatiya Vidyalaya students in Guwahati, India. The Assam Tribune published an article on the event in its February 7 Horizon supplement. See: http://www.assamtribune.com/feb0709/horizon.html

7. Ellis Elementary School Contact Video

On December 8, 2008, Ellis Elementary School in Belleville, Illinois experienced an Amateur Radio on the International Space Station (ARISS) contact with Sandra Magnus, KE5FYE. St. Louis public television KETC featured the contact on its "Living St. Louis" program. The video has been posted to YouTube. See: http://www.youtube.com/watch?v=P2TuJyNXx0c&eurl=http://livingstlouis.wordpress.com/2009/01/22/living-st-louis-video-ham-radio/&feature=player_embedded

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[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

18. WSR-052 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-02-21 17:17:08 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001001c99445$4253eb20$c6fbc160$@net>
Source record: 717
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-052.S1
WSR 052 Part 1 02/21/2009

AMSAT NEWS SERVICE BULLETIN 052.S1
FROM AMSAT HQ SILVER SPRING, MD, February 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-052.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
V-FM QRP/u-FM QRP
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[02212009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-052.S2
WSR 052 Part 2 02/21/2009

AMSAT NEWS SERVICE BULLETIN 052.S2
FROM AMSAT HQ SILVER SPRING, MD, February 21, 2009

TO ALL RADIO AMATEURS
BID: $ANS-052.S2

KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====

CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
V-FM QRP/u-FM QRP
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB

145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[020592009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only reported

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[02212009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
CanX-2

Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]

=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-052.S3
WSR 052 Part 3 02/21/2009

AMSAT NEWS SERVICE BULLETIN 052.S3
FROM AMSAT HQ SILVER SPRING, MD, February 21, 2009

TO ALL RADIO AMATEURS
BID: $ANS-052.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html

[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Non-operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[01292009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)

145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====

RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-052.S4
WSR 052 Part 4 02/21/2009

AMSAT NEWS SERVICE BULLETIN 052.S4
FROM AMSAT HQ SILVER SPRING, MD, February 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-052.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

SOHLA-1 (ASTRO TECH.)
Catalog Number:
Proposed Launch Date: February 2009?

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[01152009]
=====
UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-052.S5
WSR 052 Part 5 02/21/2009

AMSAT NEWS SERVICE BULLETIN 052.S5
FROM AMSAT HQ SILVER SPRING, MD, February 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-052.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]SB SAT @ AMSAT W8ISS ANS-036.S4
WSR 036 Part 4 02/05/2009

AMSAT NEWS SERVICE BULLETIN 036.S4
FROM AMSAT HQ SILVER SPRING, MD, February 05, 2009
TO ALL RADIO AMATEURS
BID: $ANS-036.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

SOHLA-1 (ASTRO TECH.)
Catalog Number:
Proposed Launch Date: February 2009?

Status: Launch Phase

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[01152009]
=====
UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]
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NNNN
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-
mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30
UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
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19. ANS-053 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-02-22 02:20:53 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201c99494$2a4a1aa0$7ede4fe0$@net>
Source record: 718
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-053

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Satellite News From AMSAT-India
* AMSAT Awards
* KiwiSAT News from New Zealand
* Satellite Shorts From All Over
* ARISS Status Report for the Week of February 16, 2009

SB SAT @ AMSAT $ANS-053.01
Satellite News From AMSAT-India

AMSAT News Service Bulletin 053.01
>From AMSAT HQ SILVER SPRING, MD.
February 22, 2009
To All RADIO AMATEURS
BID: $ANS-053.01

AMSAT-India Project Manager for the U/V HAMSAT-II Linear Transponder project, Prathap Kumar, VU2POP provided technical details of this new Amateur Radio transponder in the February, 2009 issue of the AMSAT-India Newsletter:

Type: Linear (Mode B) Transponder
Uplink: 434-438 MHz PLL controlled 50 KHz steps.
Downlink: 144-146 MHz PLL controlled 25 KHz steps.
IF: 21.4 MHz
RF Power: 1-3 Watts PEP.
Bandwidth: 50 KHz
Communication: CW/SSB/FM
Dimensions: 165mm x 115mm x 30mm
Power supply: 12V @400mA, 20V@50mA for PA

Photos and other news in the AMSAT-India Newsletter can be found on-line at: http://www.amsatindia.org/Newsletter

In other amateur satellite news from India word has been received that Anna University in Chennai, India is working with the Indian Space Research Organisation (ISRO) to develop a micro-satellite named ANUSAT.

This satellite will be a cube 600mm on each side. The Amateur Radio payload is planned to include a digital store and forward mode with a VHF uplink and UHF down link operating in the amateur frequency bands. Telemetry downlink from the primary scientific payloads is planned to be transmitted around 137 MHz using PCM/FSK/AM at 256 bits/sec. Additional information can be found on-line at: http://beswaminathan.googlepages.com/anusat - and - http://beswaminathan.googlepages.com/Anusat.pdf

Mineo Wakita, JE9PEL along with Ralph Wallio, W0RPK provided information of the next ISRO launch which will carry Amateur Radio satellites:

Launch : 25Apr2009 (Maybe postponed)
Vehicle: PSLV C12
Site : ISRO Satish Dhawan Space Centre Sriharikota India
Main Payload: Oceansat-2

Satellite	Country	Downlink	Mode
BeeSat	Germany	436.000	GMSK 9600/4800bps
UWE-2	Germany	437.385	CW, AFSK
ITU-pSat	Turkey	437.325	CW, High speed TLM
SwissCube-1	Switzerland	437.505	CW, AFSK 1200bps

Additional information can be found at:
http://showcase.netins.net/web/wallio/CubeSat.htm
http://www.amsat.org.uk/iaru/finished.asp?order=sat

[ANS thanks AMSAT-India, Mineo JE9PEL, and Ralph W0RPK for the above information]

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SB SAT @ AMSAT $ANS-053.02
AMSAT Awards

AMSAT News Service Bulletin 053.02
>From AMSAT HQ SILVER SPRING, MD.
February 22, 2009
To All RADIO AMATEURS
BID: $ANS-053.02

AMSAT Director Contests and Awards, Bruce KK5DO reported the past few weeks have been real busy for AMSAT Awards.

We have a lot of new satellite operators to welcome to the hobby. These have made their first satellite contact and are now members of the AMSAT Satellite Communicators Club:
+ John Hengel, W0JPH

+ Andrew Schmidt, N2FTR
+ Tom Deeble, KA6SIP
+ Robert Warshel, KG6MGE
+ Harry Strahlendorf, KC2OJN
+ Bruce Pendleton, KD8DQ
+ Rodney Waln, KC0ZHF

The following have earned the AMSAT Satellite Communications
Achievement Award:
+ Peter Nintzel, KB9ZLK #480
+ Douglas Anoman, KC9MLN #481
+ Gary Lockhart, AB3ID #482

The following have earned the AMSAT South Africa Satellite
Communications Achievement Award:
+ Douglas Anoman, KC9MLN #US130

The following have upgraded their AMSAT W4AMI Satellitie
Communication Achievement Award:
+ Wilse Morgan, WX7P from 1,000 to 2,000
+ Patrick Stoddard, WD9EWK from 3,000 to 4,000

Patrick Stoddard, WD9EWK earned the AMSAT W4AMI 5,000 Satellite
Communication Achievement Award #21.

To see all the awards visit http://www.amsat.org.

[ANS thanks Bruce, KK5DO for the above information]

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SB SAT @ AMSAT $ANS-053.03
KiwiSAT News from New Zealand

AMSAT News Service Bulletin 053.03
>From AMSAT HQ SILVER SPRING, MD.
February 22, 2009
To All RADIO AMATEURS
BID: $ANS-053.03

The KiwiSAT linear flight transponder is now "on air" in New Zealand
from the Whangaparaoa area with beam antennas pointing South. It
features:

Transponder: Inverting type (Orbital Doppler shift compensation)
Transmit Power: 2 Watts PEP.
Beacon frequency: 145.885 MHz
Uplink: 435.265 to 435.235 MHZ LSB
Down link: 145.850 to 145.880 MHz USB

The team says they are currently looking to ISC Kosmatras for a DNEPR
launch in mid to late 2009. Full details can found on-line at:
http://www.kiwisat.org.nz/index.html

[ANS thanks the KiwiSAT team for the above information]

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SB SAT @ AMSAT $ANS-053.04
Satellite Shorts From All Over

AMSAT News Service Bulletin 053.04
>From AMSAT HQ SILVER SPRING, MD.
February 22, 2009
To All RADIO AMATEURS
BID: $ANS-053.04

+ From Japan Mineo Wakita, JE9PEL reports that PRISM satellite team at Tokyo University have seen first light with the Wide Angle Camera. Data from this first test will be used to calibrate the camera and future photos are expected to be less overexposed. This picture was taken when the PRISM satellite was over Hokkaido, Japan. The first photograph can be at: http://tinyurl.com/ag7way

+ A video re-creation of the Iridium 33 and Cosmos 2251 Collision can be found at: http://tinyurl.com/ap3ydx (UniverseToday.com)

+ Winter is turning to spring in Mars' southern hemisphere. Photos taken by the HiRISE camera on board the Mars Reconnaissance Orbiter can be found at: http://tinyurl.com/bwu4wv. An entertaining video named "Springtime on Mars 2020" is on-line at: http://www.youtube.com/watch?v=yjiGH9QNiU0
(via UniverseToday.com)

+ The second repeater aboard AO-51 (Uplink: 145.880 MHz FM /Downlink: 435.150 MHz FM) remains ready for use by the K5D Desecheo Island 2009 DXpedition when the satellite is within range of the island (near Puerto Rico). When AO-51 is not within range of Desecheo Island this repeater is open for general use following the QRP guidelines. The transmitter power on both repeaters is ~800 mW. If you use circular polarization on the UHF downlink 435.150 is LHCP, and 435.300 is RHCP. Watch the blog at http://www.kp5.us/ for hints at satellite operation and other operating plans.

+ Registration is now open for the 35th Eastern VHF/UHF Conference on on April 17-19, 2009 in Enfield, Ct. Papers for the Proceedings are due March 10, 2009. More info at: http://www.newsvhf.com/vhfconf.html

[ANS thanks everyone for the above information]

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SB SAT @ AMSAT $ANS-053.05
ARISS Status Report for the Week of February 16, 2009

AMSAT News Service Bulletin 053.05
>From AMSAT HQ SILVER SPRING, MD.
February 22, 2009
To All RADIO AMATEURS

BID: $ANS-053.05

1. School Contacts

An ARISS contact was completed with South Park Elementary Center in South Park, Pennsylvania on Tuesday, February 17 via telebridge station K6DUE in Maryland. Students participated in a contest to determine which questions will be asked of astronaut Mike Fincke, KE5AIT. They learned about astronauts, shuttles and NASA and created posters or wrote essays (depending on grade level) about space related topics.

Salluit Schools in Salluit, Quebec, Canada completed an ARISS contact on Thursday, February 19 via telebridge station W6SRJ in California. Approximately 400 students from Kindergarten through Secondary are enrolled in the schools located in a remote North-West Quebec Inuit community. Teachers have included space related topics in their curriculum. All students have created artwork for the event and have submitted questions to ask the astronaut. During morning announcements, a "cool space fact of the day" has been announced daily.

An ARISS contact with Erie Planetarium in Erie, Pennsylvania took place on Saturday, February 21 via telebridge station W6SRJ in California. The Planetarium offers astronomy programs, interactive stations and science experiments throughout the year.

2. Italian Students Contact ISS

On Tuesday, February 10, students from Istituto Comprensivo Pietrasanta1-Scuola Secondaria 1ï¿½ Grado "Padre Eugenio Barsanti" participated in a successful ARISS contact. Students posed 12 questions to Mike Fincke, KE5AIT, in front of an audience of 350. Contact video was streamed live on the Web and was seen in 14 countries and in more than 36 different towns around the world. Local television stations and newspapers covered the event. Video of the contact has been posted to the OndaForte TV Web site.
See: http://www.ondaforte.tv/eventi/ariss_school_contact/index.php

3. Greek Contact Successful

On Wednesday, February 11, an ARISS contact took place with students from Alexandroupolis School of Special Education and 11th Alexandroupolis Primary School in Greece. Students asked 20 questions of Sandra Magnus, KE5FYE, in front of an audience of approximately 200. Another 700 students from four schools listened to the contact in the garden. A representative of the Greek Minister of Telecommunications and the Director of Education of Evros also attended. Three television stations,

two radio stations and newspapers covered the event.

4. ARISS Presentation at MACUL Conference

The Michigan Association for Computer Users in Learning (MACUL) will host its 33rd annual conference in Detroit, Michigan on March 18-20.

MACUL aims to bring educators together to share knowledge about educational uses of computers and technology. ARISS member Steve Michalski,

KB9UPS, will participate in the conference and give a talk on the ARISS program, showing clips of the Martin Luther King Academy (Mount Clemens,

Michigan) ARISS contact which took place in September 2007. The MACUL conference draws 3,000 educators annually.

5. Photos of German Contact Posted

Stï¿½dtisches Gymnasium Herzogenrath in North Rhine-Westphalia, Germany participated in an ARISS contact with Mike Fincke, KE5AIT, on Saturday, February 7. Photos of the contact have been posted on the Web. See: http://picasaweb.google.de/Rueliman/ARISSContact?feat=directlink#

6. ARRL QST Covers ARISS News

The American Radio Relay League (ARRL) published two ARISS news items in its March 2009 issue of QST.

Under "Media Hits" (page 12) is an item on the Ohio Department of Education Web story about the September 2008 ARISS contact with students at the Challenger Learning Center of Lucas County in Toledo. Also listed

is the Ann Arbor Chronicle article about the Ann Arbor, Michigan Hands On Museum contact.

The ARRL monthly journal has a circulation of 150,000.

7. ARISS Member Dieter Schliemann Dies

ARISS team member Dieter Schliemann, KX4Y, passed away on Monday, February 9. Dieter had been responsible for coordinating and expanding the educational outreach of ARISS through the use of Voice over the Internet Protocol (VoIP) with Internet Radio Linking Project (IRLP) and EchoLink. As his health deteriorated, Dieter continued his support, making
sure that others would carry on in his absence. He will be sorely missed.
Dieter was a member of the Radio Amateur Satellite Corporation (AMSAT) and
the American Radio Relay League (ARRL). ARRL posted an article on his contributions:
https://www.arrl.org/news/stories/2009/02/12/10647/?nc=1

[ANS thanks Carol, KB3LKI for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And, with that keep in mind that you know you are getting older if you and your teeth

don't sleep together.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

20. WSR-059 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-03-02 19:32:26 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001201c99b6d$94cbe220$be63a660$@net>
Source record: 719
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-059.S1
WSR 059 Part 1 02/28/2009

AMSAT NEWS SERVICE BULLETIN 059.S1
FROM AMSAT HQ SILVER SPRING, MD, February 28, 2009
TO ALL RADIO AMATEURS
BID: $ANS-059.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
V-SSB/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[02282009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-059.S2
WSR 059 Part 2 02/28/2009

AMSAT NEWS SERVICE BULLETIN 059.S2
FROM AMSAT HQ SILVER SPRING, MD, February 28, 2009

TO ALL RADIO AMATEURS
BID: $ANS-059.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33492 ?
Launch Date: January 23, 2009

Status: In Orbit

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[02282009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]

=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375

Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
V-SSB/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[02282009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only reported

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[02212009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]

=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com

APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-059.S3
WSR 059 Part 3 02/28/2009

AMSAT NEWS SERVICE BULLETIN 059.S3
FROM AMSAT HQ SILVER SPRING, MD, February 28, 2009
TO ALL RADIO AMATEURS
BID: $ANS-059.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt

[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/

[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:

http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Telemetry?

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[02282009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]

=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz

145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove

Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-059.S4
WSR 059 Part 4 02/28/2009

AMSAT NEWS SERVICE BULLETIN 059.S4
FROM AMSAT HQ SILVER SPRING, MD, February 28, 2009
TO ALL RADIO AMATEURS
BID: $ANS-059.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-059.S5
WSR 059 Part 5 02/28/2009

AMSAT NEWS SERVICE BULLETIN 059.S5
FROM AMSAT HQ SILVER SPRING, MD, February 28, 2009
TO ALL RADIO AMATEURS
BID: $ANS-059.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional

benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

21. ANS-060 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-03-02 19:33:47 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001301c99b6d$c794d450$56be7cf0$@net>
Source record: 720
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-060

ANS is a free, weekly, news and information service of AMSAT North America,
The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Richard Garriott, W5KWQ to speak at the AMSAT/TAPR Banquet during Hamvention
* AMSAT INDIA Certificates for Two Way VO-52 Contacts
* SuitSat-2 Meeting in Phoenix
* ARRL Satellite Handbook Now Available at AMSAT Online Store
* Amateur Radio Balloons Over North East Texas (ARBONET) Weekly Net
* Call for Papers - NEMS and MEMS for Space Applications
* ARISS Status - 23 February 2009

SB SAT @ AMSAT $ANS-060.01
Richard Garriott, W5KWQ to speak at the AMSAT/TAPR Banquet during Hamvention

AMSAT News Service Bulletin 060.01
From AMSAT HQ SILVER SPRING, MD.
March 1, 2009
To All RADIO AMATEURS
BID: $ANS-060.01

We are pleased to announce that Richard Garriott, W5KWQ will be the keynote
speaker at the AMSAT/TAPR Banquet during
Hamvention 2009. The Banquet will be on
Friday evening, 15 May 2009. Richard was aboard the ISS (International Space
Station) in October 2008 and delighted many amateur radio operators and school

children with contacts. He was the sixth private citizen to make the trip.
In 1983, Richard's father Owen Garriott, W5LFL was the first person to make amateur radio contacts from the Space Shuttle. In addition to the banquet speech, Richard will give a short presentation at the AMSAT Forum on Saturday morning, and visit the AMSAT & ARRL booths.

There is limited seating for the banquet, and tickets may be purchased for $30 by contacting Martha at the AMSAT office. Banquet tickets will also soon be available through the AMSAT web store.

Thanks to Frank Bauer and Rosalie White for making the arrangements.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-060.02
AMSAT INDIA Certificates for Two Way VO-52 Contacts

AMSAT News Service Bulletin 060.02
From AMSAT HQ SILVER SPRING, MD.
March 1, 2009
To All RADIO AMATEURS
BID: $ANS-060.02

AMSAT INDIA will issue a certificate for Radio Hams who establish two way contact thru VO-52 from the period January 26th 2009 until May 5th 2009.

The first fifty certificates have been sponsored by a well-wisher including postage. This certificate will also be available for a fee which will be announced on a later date.

Please send us your QSL card which has details of the QSO on VO-52 to the following address. Please provide us the exact mailing address where you would like to receive the certificate.

AMSAT India (Regd.)
No. 201, 2nd Main Road,
Mahalakshmi Layout,
Bangalore 560086
India.

[ANS thanks Nitin, VU3TYG, for the above information]

/EX

SB SAT @ AMSAT $ANS-060.03
SuitSat-2 Meeting in Phoenix

AMSAT News Service Bulletin 060.03
From AMSAT HQ SILVER SPRING, MD.
March 1, 2009
To All RADIO AMATEURS
BID: $ANS-060.03

Many of the members of the SuitSat-2 team participated in a working meeting
at the Microchip complex 20 - 22 Feb 2009. Most of the modules were demonstrated and a great deal of work followed to improve the interfaces between the modules. Gould, WA4SXM is working on SuitSat-2 web pages that
will provide details of the work and photographs of the modules and team members. These pages will be added to the AMSAT site soon.

SB SAT @ AMSAT $ANS-060.04
ARRL Satellite Handbook Now Available at AMSAT Online Store

AMSAT News Service Bulletin 060.04
From AMSAT HQ SILVER SPRING, MD.
March 1, 2009
To All RADIO AMATEURS
BID: $ANS-060.04

The ARRL Satellite Handbook by Steve Ford,
WB8IMY, is now available at the AMSAT
online store. Visit http://www.amsat.org and
click on Online Store from the menu
on the left. Follow the link to Publications.

[ANS thanks Bruce, KK5DO, for the above information]

/EX

SB SAT @ AMSAT $ANS-060.05
Amateur Radio Balloons Over North East Texas (ARBONET) Weekly Net

AMSAT News Service Bulletin 060.05
From AMSAT HQ SILVER SPRING, MD.
March 1, 2009
To All RADIO AMATEURS
BID: $ANS-060.05

The Amateur Radio Balloons Over North East Texas (ARBONET) Weekly Information
Net is held Wednesday evening at 8:30 PM CST via the facilities of the North
Texas Repeater Association Repeater Network (NTXRA)

Dallas: 442.025 MHz Offset: +5 MHz PL Tone: 127.3
Ft. Worth: 443.450 MHz Offset: + 5 MHZ PL Tone: 127.3
McKinney: 442.575 MHz Offset: + 5 MHz PL Tone: 127.3

The NTXRA network has IRLP capabilities, The node number is 945, channel 1.

Repeaters outside the coverage area of the NTXRA network who have IRLP capabilities can link into the network to participate in the weekly nets.

Anyone interested in Amateur Radio High Altitude Balloon flights or in participating in ARBONET activities is invited to join this weekly on-the-air
activity.

[ANS thanks Doug, W5BL, for the above information]

/EX

SB SAT @ AMSAT $ANS-060.06
Call for Papers - NEMS and MEMS for Space Applications

AMSAT News Service Bulletin 060.06
From AMSAT HQ SILVER SPRING, MD.
March 1, 2009
To All RADIO AMATEURS
BID: $ANS-060.06

2009 ASME International Mechanical Engineering Congress & Exposition

The symposium will be held at the ASME Congress
on November 13-19, 2009, on-site
at Lake Buena Vista, Florida (Walt Disney World). The call-for-paper is for
Track 13 (Micro and Nano Systems), Topic5-NEMS and MEMS for Space Applications.
Please note that the goal of this symposium is forward looking and on current/future technologies that can lead toward the goal of highly integrated
Nano/Pico-satellites.

The goal of this topic is on space sciences and technology with NEMS and MEMS.
The continuing trend towards smaller satellites has produced operational NanoSats (1-10kg) and PicoSats (<1kg). These satellites will transform the
way
we study space and terrestrial sciences by providing currently non-existing
capabilities such as instantaneous field measurements, ultra large arrays,
and
sacrificial missions. Key attributes of these satellites are smaller,

lighter,
cheaper, and expendable. Naturally, the miniaturization and high density integration capability of N/MEMS are the future for these missions and satellites.

Specific areas of interest related N/MEMS include, but are not limited to:

* Attitude determination and control systems
* Integrated bus
* Navigation and positioning
* Power
* Propulsion
* Thermal control
* Communication
* Science instruments

[ANS thanks Adam Huang and Eui-Hyeok Yang for the above information]

/EX

SB SAT @ AMSAT $ANS-060.07
ARISS Status - 23 February 2009

AMSAT News Service Bulletin 060.07
From AMSAT HQ SILVER SPRING, MD.
March 1, 2009
To All RADIO AMATEURS
BID: $ANS-060.07

1. Upcoming Simulated Contacts

Several simulated Amateur Radio on the International Space Station (ARISS)
contacts have been scheduled. These training sessions are terrestrial-based
amateur radio contacts using ARISS-equivalent equipment. Audio will be available
on IRLP. All times are approximate.

Wednesday, March 4:
14:30 UTC ï¿½ Technopolis, Belgium and Andre Kuipers, PI9ISS
14:45 UTC - Bedford South School, Bedford, Nova Scotia, Canada and Chris Hadfield, VA3OOG
15:00 UTC - Bedford South School, Bedford, Nova Scotia, Canada and Cady Coleman, KC5ZTH

2. South Park Students Speak with ISS

On Tuesday, February 17, an Amateur Radio on the International Space Station
(ARISS) contact took place between South Park Elementary Center in South Park,

Pennsylvania and Pittsburgh native Mike Fincke, KE5AIT, on the ISS.
Telebridge
station K6DUE in Maryland facilitated the
contact. An audience of approximately
460 watched as twenty questions were asked and
answered. The audio was fed into
the EchoLink AMSAT and JK1ZRW servers and received 7 connections from
stations
in England and the U.S. The event received extensive media coverage
from
television stations and newspapers. The links follow.

CBS affiliate:
http://kdka.com/video/?idS487@kdka.dayport.com

ABC affiliate:
http://www.thepittsburghchannel.com/news/18730162/detail.html?taf=pit

NBC affiliate:
http://www.wpxi.com/news/18729533/detail.html

Pittsburgh Post Gazette:
http://www.pittsburghpostgazette.com/pg/09049/949857-52.stm

Pittsburgh Tribune-Review:
http://www.pittsburghlive.com/x/pittsburghtrib/s_612166.html

3. Salluit Students Question Astronaut via Radio

Students attending Salluit Schools in Salluit, Quebec, Canada
experienced an
Amateur Radio on the International Space Station (ARISS) contact on
Thursday,
February 19 via telebridge station W6SRJ in California. Mike Fincke,
KE5AIT,
answered 15 questions posed to him by the students. The audio was fed
into
the
EchoLink AMSAT and JK1ZRW servers and received 6 connections from the
U.S.,
Spain, Italy and England. Approximately 450
parents, elders and students (out of
a village of 1000) were present for the contact. Parents were out and
about
early in the day, indicating this event was a huge accomplishment, as
they
do
not normally come out early this time of year due to the severe cold.
ARISS
mentor Steve McFarlane remarked, ï¿½The contact was a huge success ï¿½
these
people

really enjoyed the experience and are ever thankful to the parties
involved
for
their work in showing their children that there are incredible
discoveries
and
adventures to be had ï¿½ all they have to do, is believe... apparently
we
moved
them a little closer to that today....ï¿½

4. Erie Planetarium Contact Successful

On Saturday, February 21, Erie Planetarium in Pennsylvania participated
in
an
Amateur Radio on the International Space Station (ARISS) contact with
Mike
Fincke, KE5AIT, via telebridge station W6SRJ in California. Twelve
students
asked 21 questions of the astronaut in front of a crowd of 200. At
least
one
television station reported on the event. The audio was fed into the
EchoLink
AMSAT and JK1ZRW servers and had 13 connections, including one repeater,
from 8
countries. Among those listening were stations in
China, New Zealand and Spain.

A ham operator who was manning a Radio Amateur Satellite Corporation
(AMSAT)
exhibit table at a Yuma, Arizona hamfest used his
radio to listen to the contact
as part of his demonstrations. Even though only the ISS side of the
contact
was
heard, the crowd enjoyed hearing Mike answer the questions.

5. SuitSat-2 Meeting Held

The Amateur Radio on the International Space Station (ARISS) team held a
SuitSat-2 meeting on Friday ï¿½ Sunday, February 20 - 22 in Phoenix,
Arizona.
Status reports of the different modules were given and reviewed and the
team
began integration testing.

6. ARISS International Team Meeting Held

Amateur Radio on the International Space Station (ARISS) held its
monthly

teleconference on Tuesday, February 17. Agenda items discussed included
the
upcoming face-to-face meeting to be held in the Netherlands in June,
Charles
Simonyiï¿½s planned activities during his mission in March and a status
on
SuitSat-2. The minutes have been posted to the ARISS Web site. See:
http://www.rac.ca/ariss/arisstel2009-02-17.htm

7. ARRL Letter Article on Dieter Schliemann

Amateur Radio on the International Space Station (ARISS) team member
Dieter
Schliemann, KX4Y, passed away on Monday, February 9. Dieter had been
responsible for coordinating and expanding the educational outreach of
ARISS
through the use of Voice over the Internet Protocol (VoIP) with Internet
Radio
Linking Project (IRLP) and EchoLink. As his health deteriorated, Dieter
continued his support, making sure that others would carry on in his
absence.
He will be sorely missed. Dieter was a member of the Radio Amateur
Satellite
Corporation (AMSAT) and the American Radio Relay
League (ARRL). The ARRL Letter
posted an article on his contributions:
https://www.arrl.org/arrlletter/09/0220/

8. German School Contact Update

Stï¿½dtisches Gymnasium Herzogenrath in North Rhine-Westphalia, Germany
participated in an Amateur Radio on the International Space Station
(ARISS)
contact with Mike Fincke, KE5AIT, on Saturday, February 7. New links
are
available for related photos, audio, video and newspaper articles. See:
http://www.darc.de/g14/ARISS.html

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT
Project
Funds, will be eligible to receive additional benefits. Application
forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,

Lee McLamb, KU4OS

22. ANS-062 AMSAT News Service Special Bulletin - March 3 is AMSAT's 40th Anniversary

Newsgroup: rec.radio.amateur.space
Date: 2009-03-03 00:19:49 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002801c99b95$bfecf660$3fc6e320$@net>
Source record: 721
Cross-posted to: rec.radio.amateur.space,rec.radio.info

SB SAT @ AMSAT $ANS-062.01
ANS Special Bulletin: March 3 Marks AMSAT's 40th Anniversary

AMSAT News Service Bulletin 062.01
>From AMSAT HQ SILVER SPRING, MD.
March 3, 2009
To All RADIO AMATEURS
BID: $ANS-062.01

March 3, 2009 marks the 40th anniversary of AMSAT's incorporation. AMSAT was incorporated in the District of Columbia on March 3, 1969.

Perry, W3PK who was AMSAT President from 1969 to mid-1980 said, "We filed the application for incorporation 40 years ago on Feb. 27, 1969. A copy of the filing has been saved at: http://www.amsat.org/amsat-new/AboutAmsat/documents/incorporation.php

You can see a copy of the Certificate of Incorporation at: http://www.amsat.org/amsat-new/AboutAmsat/documents/certificate.php

Perry is working with Dick Daniels, W4PUJ to preserve the original AMSAT Newsletters, archived in paper format onto electronic media. Additional AMSAT history can be found in the archives of the "Amateur Satellite Report" Newsletters scanned and converted to PDF by Phil Karn, KA9Q. Phil has these issues posted on his website (with AMSAT's permission). See: http://www.ka9q.net/newsletters.html

As the electronic archive project makes progress Perry will issue a call for one or more volunteers willing to receive scans of additional issues JPEG format via e-mail, perform the OCR work and help us change them to searchable PDF files.

Watch upcoming issues of The AMSAT Journal for articles of AMSAT's roots. AMSAT will also feature 40 years of our accomplishments at the 2009 Dayton Hamvention.

[ANS thanks Perry, W3PK for the above information]

/EX

23. [ADMIN,META] Allow crossposting to rec.radio.amateur.moderated?

Newsgroup: rec.radio.amateur.space
Date: 2009-03-03 14:22:16 UTC
From: rram@panix.com
Message-ID: <gojeci$m74$1@reader1.panix.com>
Source record: 722
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.amateur.moderated

(Followups directed to poster by default. If followup to newsgroups is desired, edit your headers on followup to drop rec.radio.amateur.moderated from the Newsgroups line, else your article will be rejected.)

The rec.radio.amateur.moderated newsgroup enters its 3rd year of operation this month. Since its creation in February of 2007, we have approved nearly 3,000 articles about amateur radio and closely related subjects. We would like to thank our readers and posters for their quality contributions to our newsgroup.

When we first started out, consistent with our newsgroup's Charter and Posting Guidelines:

http://www.panix.com/~rram/usenet/rram/

we allowed discussion threads to be posted to our newsgroup only. Our moderation software is programmed to automatically reject any crossposts. The one exception has been periodic information postings that are crossposted to rec.radio.info, rec.answers, and/or news.answers.

Some moderated newsgroups, such as those in the comp.lang.perl.* and misc.kids.* hierarchies, started accepting crosspostings to appropriate unmoderated newsgroups after a suitable waiting period from their initial creation. Now that our newsgroup is well-established and carried at most major sites, we would like to implement this customary followup and allow some crossposting. We would propose to allow simultaneous crossposting (i.e., one article, with all newsgroups specified at once on the Newsgroups line in the headers) to rec.radio.amateur.moderated and one other unmoderated newsgroup in the rec.radio.amateur.*, alt.radio.amateur.*, and alt.ham-radio.* hierarchies only.

Pros:

- Allows the moderated and unmoderated newsgroups to share discussion threads of common interest, without propagating more than one set of articles to news, or showing them more than once in a newsreader. Presently, threads of common interest have to run in parallel, with different sets of followups, and requiring readers to have to follow two threads, possibly with duplicate articles, in different newsgroups. We have seen multiple examples of this happening in the amateur-radio-related newsgroups over the past 2 years.

- Provides the default action of submitting articles and followups to moderator review, as news servers will forward to us for approval any article that contains rec.radio.amateur.moderated on the Newsgroups line. This allows the moderated newsgroup crossposting to serve as a "guardian" or "sentinel" to discourage threads from getting hijacked into running off-topic or into personal abuse. This may also encourage posters to use the underutilized rec.radio.amateur.misc or .policy newsgroups as crossposting targets for articles that might otherwise be posted only to .moderated.

- Readers of the unmoderated newsgroups will enjoy high-quality, on-topic, discussion threads that would otherwise require subscribing to and reading a moderated newsgroup. Readers of the moderated newsgroup will enjoy high-quality, on-topic, discussion threads that would otherwise require subscribing to and reading other unmoderated newsgroups. Those unmoderated newsgroups may contain articles of widely varying degrees of quality and topic relevance.

- Participation in this crossposting scheme is completely voluntary. Posters of initial articles in threads will make the voluntary choice to add rec.radio.amateur.moderated and one other unmoderated newsgroup to the Newsgroups line when posting. Those following up to these crossposted threads will make a voluntary choice whether to keep rec.radio.amateur.moderated or any other newsgroup on the Newsgroups line, or remove them. Followups may be directed by default to any subset of the newsgroups on the Newsgroups line (or via E-mail to "poster") by specifying them on an appropriate Followup-To line. In short, you control what you post, where you post it, and what default destinations you want for any followups. This proposed crossposting scheme does not change any of these long-standing features of Usenet and newsreader software.

Cons:

- This will subject all such simultaneously crossposted articles to moderator review by us. If they do not meet the Charter and Posting Guidelines of rec.radio.amateur.moderated, they will be rejected. We will attempt to work with submitters to let them know what is happening, and how their articles can be fixed for eventual approval. However, rejected articles that were submitted anonymously without a traceable/derivable E-mail address or identity will have to be dropped silently without feedback to the unreachable submitter.

- Moderator review will introduce some posting delay. However, it has been our experience over the last 2 years that with our large moderation team distributed across many time zones, and the automation provided by our moderation software, we can turn submissions around relatively quickly, often within an hour.

- Many newsreaders do not give clear feedback to the user what newsgroups in which a given article appears, nor to what newsgroups a followup to that article will be sent by default. We expect to initially have to handle a few confused, possibly angry, submitters

who will insist that they did not intend to post to a moderated newsgroup. We are willing to provide the necessary polite feedback and user education to them to allow this crossposting scheme to work effectively. This will help ensure that the scheme is only used by those who are reasonably aware of the various pros and cons. We hope that this problem will diminish with time and greater user awareness.

- Not all newsgroups, especially those in the alt.* hierarchy, are carried at all sites. Users may find themselves following up by default to newsgroups that do not exist on their local news server, possibly resulting in article rejection from their server. Those users would have to edit their Newsgroups line for successful resubmission. We will work with users to get appropriate newsgroups added to their local servers, as well as with Panix to get those newsgroups added to Panix's server. However, as with default followups described in the previous paragraph, we expect to have to go through an initial period of user and news service provider education and polite feedback. We hope that this problem also will diminish with time and greater user awareness.

We propose to enforce this scheme in our moderation software as follows:

- Submissions simultaneously crossposted to more than 2 newsgroups will be automatically rejected with a rejection form letter (same as what happens now to submissions that are posted to more than 1 newsgroup).

- Submissions that contain newsgroups on the Newsgroups line other than approved newsgroups in the rec.radio.amateur.*, alt.radio.amateur.*, or alt.ham-radio.* hierarchies will be automatically rejected with a rejection form letter.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

To help publicize this new editorial policy, we will update our Posting Guidelines, which are posted to the moderated newsgroup on the 15th of each month. Changes to our Posting Guidelines are indicated by an updated date in the Revision: auxiliary header at the top of the body, as well as "change bars" ('|') after each modified line of text. We will also add a short announcement, posted on the 1st of each month and cross-posted to the unmoderated newsgroups, restating this new editorial policy, and encouraging crossposted submissions.

Since this is a change to our newsgroup's editorial policies, and with some impact to the readers and posters of the unmoderated newsgroups, we would like to solicit 30 days of direct feedback and/or public discussion regarding this proposed change. For example, we would be interested to know if allowing crossposting to one other unmoderated newsgroup is enough, or if two would be preferable. We feel that more than two additional crossposted newsgroups greatly increases the probability of misconduct or accidental misposting that may result in article rejection by us. Also, should this scheme be opened up to uk.radio.amateur and aus.radio.amateur.* as well? You may send us E-mail directly to our administrative contact address below, which is the default Followup-To/Reply-To for this article. You may also discuss this publicly on the unmoderated newsgroups. In fact, we cannot stop you from doing so. We will make every reasonable effort to incorporate any feedback and suggestions. If we decide to implement this proposal, we will make a public announcement shortly after the end of the 30-day discussion period.

(Followups directed to poster by default. If followup to newsgroups is desired, edit your headers on followup to drop rec.radio.amateur.moderated from the Newsgroups line, else your article will be rejected.)

--
rec.radio.amateur.moderated Admin
rec-radio-amateur-moderated-request@panix.com

24. Radio Meteor Obs. Bull. February 2009

Newsgroup: rec.radio.amateur.space
Date: 2009-03-05 20:03:58 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <svb0r4hpje3ovsca5infkj4mc418tlk3hp@4ax.com>
Source record: 723
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 187 of February 2009 (74 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0902.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

25. WSR-068 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-03-10 03:48:14 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000f01c9a133$02423ff0$06c6bfd0$@net>
Source record: 724
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-068.S1
WSR 068 Part 1 03/09/2009

AMSAT NEWS SERVICE BULLETIN 068.S1
FROM AMSAT HQ SILVER SPRING, MD, March 09, 2009
TO ALL RADIO AMATEURS
BID: $ANS-068.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[03092009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT

Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-068.S2
WSR 068 Part 2 03/09/2009

AMSAT NEWS SERVICE BULLETIN 068.S2
FROM AMSAT HQ SILVER SPRING, MD, March 09, 2009
TO ALL RADIO AMATEURS
BID: $ANS-068.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33492 ?
Launch Date: January 23, 2009

Status: In Orbit

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[02282009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1

Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[02282009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]

=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only reported

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[02212009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN

/EX

SB SAT @ AMSAT W8ISS ANS-068.S3
WSR 068 Part 3 03/09/2009

AMSAT NEWS SERVICE BULLETIN 068.S3
FROM AMSAT HQ SILVER SPRING, MD, March 09, 2009
TO ALL RADIO AMATEURS
BID: $ANS-068.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605

Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz

1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Non-operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[01292009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====

UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]

=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-068.S4
WSR 068 Part 4 03/09/2009

AMSAT NEWS SERVICE BULLETIN 068.S4
FROM AMSAT HQ SILVER SPRING, MD, March 09, 2009
TO ALL RADIO AMATEURS
BID: $ANS-068.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm

FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web page: http://www.amsat.org
[02212009]
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SB SAT @ AMSAT W8ISS ANS-068.S5
WSR 068 Part 5 03/09/2009

AMSAT NEWS SERVICE BULLETIN 068.S5
FROM AMSAT HQ SILVER SPRING, MD, March 09, 2009
TO ALL RADIO AMATEURS
BID: $ANS-068.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667

Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org

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26. ANS-074 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-03-15 01:22:09 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000e01c9a50c$6ef35080$4cd9f180$@net>
Source record: 725
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-074

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT at the Dayton Hamvention 2009
* Air Force Approves AMSAT Keplerian Element Distribution
* Mario Acuï¿½a, LU9HBG Silent Key
* AMSAT-DC Spring Workshop April 25
* Satellite Shorts From All Over
* UT1FG/MM Wet Grid Square via Satellite Expedition
* ARISS Status Report for the Week of March 9, 2009

SB SAT @ AMSAT $ANS-074.01
AMSAT at the Dayton Hamvention 2009

AMSAT News Service Bulletin 074.01
>From AMSAT HQ SILVER SPRING, MD.
March 15, 2009
To All RADIO AMATEURS
BID: $ANS-074.01

AMSAT Board Member, Gould Smith, WA4SXM tells of AMSAT's plans at the 2009 Dayton Hamvention will be held this year on 15 - 17 May 2009.

Gould says, "This is the 58th year of the Dayton Hamvention, sponsored by DARA (Dayton Amateur Radio Association). As has been the case for the many years Hamvention will be at the Hara Arena Complex on the north side of Dayton. Further information on Hamvention 2009, including advance ticket sales and motel accommodations, can be found at http://www.hamvention.org."

See http://www.amsat.org/amsat-new/hamvention/2009/Dayton.php for all of the details of AMSAT at Dayton 2009.

AMSAT will occupy the same booths (444-449) in Ball Arena, right across from the ARRL area and just inside the door from the Satellite Demon-

stration area. Make your reservations early for all AMSAT activities!

AMSAT has a number of great activities planned during Hamvention. There will be a number of new offerings at the AMSAT booth.

2009 is the 40th Anniversary of AMSAT and we will have many pieces of memorabilia on display highlighting 40 years of amateur radio in space.

SuitSat-2 has been making a great deal of progress this past year. We will have on display all of the modules that will go into the Orlan space suit later this year, and we will be able to demonstrate most of them.

Space Traveler Richard Garriott, W5KWQ will be the speaker at the annual AMSAT/TAPR Banquet. He will also give a short talk during the Saturday AMSAT Forum and spend some time at the AMSAT booth. Reservations for the AMSAT/TAPR Banquet are now available through the AMSAT Store. See: http://www.amsat-na.com/store/item.php?id0158

AMSAT has a limited block of rooms reserved at the Hampton Inn in Fairborn, OH. Please contact Martha at the AMSAT office (301-589-6062) or by e-mail at martha@amsat.org for room price and availability during the Hamvention. Priority for rooms will be given to AMSAT members volunteering to work in the AMSAT booth for multiple 2 hour shifts during the Hamvention.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-074.02
Air Force Approves AMSAT Keplerian Element Distribution

AMSAT News Service Bulletin 074.02
>From AMSAT HQ SILVER SPRING, MD.
March 15, 2009
To All RADIO AMATEURS
BID: $ANS-074.02

Keeper of the AMSAT Keps, Ray Hoad, WA5QGD is pleased to announce that AMSAT NA has recieved approval to continue re-distribution of Keplerian elements from the Air Force Space Command data source (Space Track website) for the period April 1, 2009 to April 1, 2010.

Thanks to the AFSPC team and especially to Mr. Mark Riddle for their help in this process.

Ray said, "This means that the AMSAT Keplerian Elements in verbose format and the 2-line format can be freely distributed by those who recieve them from AMSAT. AMSAT's two formats are each considered an AMSAT product and therefore can be freely distributed. AMSAT asks that AMSAT NA be given credit as the source for your redistribution."

[ANS thanks Ray, WA5QGD for the above information]

/EX

SB SAT @ AMSAT $ANS-074.03
Mario Acuï¿½a, LU9HBG Silent Key

AMSAT News Service Bulletin 074.03
>From AMSAT HQ SILVER SPRING, MD.
March 15, 2009
To All RADIO AMATEURS
BID: $ANS-074.03

AMSAT Board Member, Tom Clark, K3IO told AMSAT this week, "It is with great sadness that I learned today of the passing of a long-term friend of AMSAT, Mario Acuï¿½a, LU9HBG." Mario was a very senior scientist/engineer at NASA Goddard where he made his name by providing magnetometers for nearly every deep-space and planetary mission since the 1970's.

Tom recalled, "When a young Martin Sweeting wanted to fly magnetometers for navigation on the earliest UoSAT's, Mario was the 'go to' guy that put Martin on the right track. Since magnetometers are biased by metal and electrical currents in a spacecraft, Mario arranged for testing of the early UoSATs."

Tom also recalled Mario's assistance with the Phase-3 program, "When Jan King, Karl Meinzer, and I were trying to minimize radiation damage in critical Phase-3 components (like the IHU and CMOS logic), Mario was our mentor in helping to figure out the best way to minimize damage and teaching us how to apply tantalum to the top and bottom of ICs."

[ANS thanks Tom, K3IO for the above information]

/EX

SB SAT @ AMSAT $ANS-074.04
AMSAT-DC Spring Workshop April 25

AMSAT News Service Bulletin 074.04
>From AMSAT HQ SILVER SPRING, MD.
March 15, 2009
To All RADIO AMATEURS
BID: $ANS-074.04

AMSAT-DC Area Coordinator Pat Kilroy, N8PK reports on plans for the AMSAT-DC Workshop to be held on Saturday, April 25, at the NASA Goddard Space Flight Center in Greenbelt, Md.

A small "simulated satellite" kit will be built, tested and operated by individuals attending. The completed kit, soon to be widely known as a PICetSat II module, is a simple remote sensing unit that serves as an expendable high-altitude small balloon payload. It transmits downlink telemetry on the 70 cm Amateur Radio band.

Other attendees will provide and configure radios, computers and software needed to receive, decode and analyze the PICetSat II

telemetry.

Pat says, "The format of this year's workshop is an experiment unto itself for the few AMSAT-DC subgroup of members who are attempting to organize such an event for the first time."

He adds, "This workshop may prove to be a fine training opportunity for one to learn the basics of the design, construction, testing, calibrating and operating an earth-orbiting satellite. All of this in one long Saturday of fun!"

The planning sessions are being held each Thursday evening via a toll-free telephone conference. If you wish to help organize or execute the workshop then contact Pat by e-mail for the details of connecting with the group on the telecon at Patrick.L.Kilroy@nasa.gov as soon as possible.

The cost of each kit will be determined soon, along with the admission structure. For example, being evaluated is $90 for a kit plus AMSAT membership if one doesn't already have it. The details of the registration process, workshop procedures and the associated costs are to follow in a later bulletin and on the AMSAT-NA and AMSAT-DC web pages.

[ANS thanks Pat Kilroy, N8PK for the above information]

/EX

SB SAT @ AMSAT $ANS-074.05
Satellite Shorts From All Over

AMSAT News Service Bulletin 074.05
>From AMSAT HQ SILVER SPRING, MD.
March 15, 2009
To All RADIO AMATEURS
BID: $ANS-074.05

+ The Desecheo Island K5D DXpedition team made its first satellite contact on Friday, February 20th with Andrew Glassbrenner, KO4MA, in New Port Richey, Florida. That QSO was conducted at 20:14 UTC through the SO-50 ham radio bird.

+ Paul 2E1EUB will be active on all satellites from N.E.Scotland for the week starting March 21, 2009. Check out qrz.com under 2M1EUB listing for more information.

+ Graham, G3VZV, has onboard the ship MV Minerva since March 7 which is visiting the islands off lying Antarctica. The schedule included visits to South Georgia (VP8) on March 12 &13th and Tristan da Cunha (ZD9) on March 18 & 19th before arriving in Cape Town on March 24th. Activity is planned via SO50, AO51 and the ISS (if available) from the ship and, if licences can be obtained, from the islands. He will be taking FM handhelds and an Arrow antenna and hopes to have some internet access which can be used to arrange skeds if asked. Contact

info is: graham_at_shirville.com

+ Adrian, AA5UK, will be operating as ZF2AE from Grand Cayman and as ZF2AE/ZF8 from Little Cayman during his March 25th - April 8th vacation on AO-51, SO-50 and FO-29.

+ QSLs for the W5ACM/C6A/MM Western Caribbean Cruise 2009 started shipping on March 2, 2009. Operators/participants for this event included W5ACM, WB5RMA, WA5TWT and WA5WOD.

+ Go to http://tinyurl.com/c8jjzx for more information on how you can submit your suggestion to help NASA name the next ISS Module. (UniverseToday.com)

+ Mark, N8MH plans to host an AMSAT table at RARSFest in Raleigh, NC on Saturday, April 11, 2009. He is recruiting help to staff the table and to answer questions. Please contact Mike directly at: N8MH at AMSAT dot ORG if you can help. Details for RARSFest can be found at: http://www.rars.org/hamfest/

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-074.06
UT1FG/MM Wet Grid Square via Satellite Expedition

AMSAT News Service Bulletin 074.06
>From AMSAT HQ SILVER SPRING, MD.
March 15, 2009
To All RADIO AMATEURS
BID: $ANS-074.06

Captain Yuri of the MV Bluebill announced he will be operating as UT1FG/MM from his ship April through June, 2009. His sea voyage will take him from Northern Europe, across the Atlantic Ocean, the Gulf of Mexico up to the Mississippi River, then southward toward Mexico and Central America. Yuri says his current plans are to operate on AO-27, AO-51, SO-50, VO-52, FO-29, and AO-7. Over the past two years he already has logged many North American stations from his ship operations in the Atlantic and Pacific Oceans. QSL via home call UT1FG.

[ANS thanks Yuri, UT1FG for the above information]

/EX

SB SAT @ AMSAT $ANS-074.07
ARISS Status Report for the Week of March 9, 2009

AMSAT News Service Bulletin 074.07
>From AMSAT HQ SILVER SPRING, MD.
March 15, 2009
To All RADIO AMATEURS

BID: $ANS-074.07

1. School Contacts

An ARISS contact was held with the Da Vinci Science Center in Allentown, Pennsylvania on Saturday, March 14 via telebridge station WH6PN in Hawaii. Students submitted questions to ask the ISS crew through the Center's Teacher Leader Institute. Eighteen students with the best questions were selected to speak with the astronaut and all students were invited to attend this educational activity.

Parkside Community College in Parkside, Cambridge, U.K. has been scheduled for an ARISS contact on Monday, March 30 at 16:54 UTC. Station GB4FUN will handle the connection.

The Girls' Middle School (GMS) in Mountain View, California has been scheduled for an ARISS contact on Monday, March 30 at 18:16 UTC via telebridge station K6DUE in Maryland. The contact is planned with spaceflight participant Charles Simonyi, KE7KDP/HA5SIK. GMS is a small, independent school for girls in 6th - 8th grade. The school's mission is to nurture and empower girls during this pivotal time in their lives. It looks for non-traditional educational opportunities to help girls expand their horizons.

An ARISS contact has been scheduled for Marcelino Canino Canino Middle School in Dorado, Puerto Rico. The contact will take place on Tuesday, March 31 at 15:29 UTC. A Microsatellite Student Program has been implemented where students design, construct, build and launch microsatellites which are then tracked and recovered with the help of amateur radio operators.

Milwee Middle School in Longwood, Florida has been scheduled for an ARISS contact on Wednesday, April 1 at 17:48 UTC via telebridge station ON4ISS in Belgium.

Carl Sandburg Elementary School in the Lake Washington School District, Kirkland, Washington has been approved for an ARISS contact. The contact is slated for Thursday, April 2 at 19:28 UTC, assisted by telebridge station W6SRJ in California.

2. Padthaway Contact Successful

On Tuesday, March 3, students from Padthaway Primary School in Padthaway, Australia participated in an ARISS contact. Telebridge station W6SRJ in California facilitated the connection, allowing fifteen students to ask the astronaut 20 questions. One hundred guests, including the mayor and his wife, attended the event and enjoyed a PowerPoint presentation and a showing of Mike Fincke's Expedition 9 video tour of the ISS. Media outlets were present and the audio was fed to local radio stations. The audio was also fed into the EchoLink AMSAT and JK1ZRW servers with 6 connections made from stations in Australia, England, Italy and the U.S.

3. NASA Teaching From Space Site - Now Available

The NASA Teaching From Space (TFS) Web site is now on-line. A new
ARISS section is also available. For the TFS site, see:
http://www.nasa.gov/audience/foreducators/teachingfromspace/home/index.ht
ml
http://tinyurl.com/au7wr8

To view the ARISS site directly, go to:
http://www.nasa.gov/audience/foreducators/teachingfromspace/home/ariss.ht
ml
http://tinyurl.com/bpy9bp

4. Astronaut Training Status

Three successful simulated ARISS contacts took place on Wednesday,
March 4. The simulations were held between the following participants:

Technopolis, Belgium and Andre Kuipers, PI9ISS
Ralph McCall School, Airdrie, Alberta, Canada and Chris Hadfield, VA3OOG

Ralph McCall School, Airdrie, Alberta, Canada and Cady Coleman, KC5ZTH

These training sessions were terrestrial-based amateur radio contacts
using ARISS-equivalent equipment. Audio was available on IRLP.

5. Amateur Radio Newsline Posts Article on Simonyi

On March 6, Amateur Radio Newsline (Report #1647) ran a story on
Charles Simonyi's upcoming mission. "Ham Radio in Space: Charles
Simonyi, KE7KDP Heads Back to the ISS," may be viewed here:
http://www.arnewsline.org/

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office. With that please
keep in mind you know you are aging when you wake up looking like your
driver's license picture.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

27. WSR-075 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-03-17 12:28:30 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c9a6fb$d7a09fc0$86e1df40$@net>
Source record: 726
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-075.S1
WSR 075 Part 1 03/16/2009

AMSAT NEWS SERVICE BULLETIN 075.S1
FROM AMSAT HQ SILVER SPRING, MD, March 16, 2009
TO ALL RADIO AMATEURS
BID: $ANS-075.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/s-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[03162009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT

Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-075.S2
WSR 075 Part 2 03/16/2009

AMSAT NEWS SERVICE BULLETIN 075.S2
FROM AMSAT HQ SILVER SPRING, MD, March 16, 2009
TO ALL RADIO AMATEURS
BID: $ANS-075.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33492 ?
Launch Date: January 23, 2009

Status: In Orbit

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[02282009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1

Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/s-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[03162009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]

=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only reported

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[02212009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[01082009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-075.S3
WSR 075 Part 3 03/16/2009

AMSAT NEWS SERVICE BULLETIN 075.S3
FROM AMSAT HQ SILVER SPRING, MD, March 16, 2009
TO ALL RADIO AMATEURS
BID: $ANS-075.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.

[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT

Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====

PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Non-operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[01292009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html

[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====

AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-075.S4
WSR 075 Part 4 03/16/2009

AMSAT NEWS SERVICE BULLETIN 075.S4
FROM AMSAT HQ SILVER SPRING, MD, March 16, 2009
TO ALL RADIO AMATEURS
BID: $ANS-075.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-075.S5
WSR 075 Part 5 03/16/2009

AMSAT NEWS SERVICE BULLETIN 075.S5
FROM AMSAT HQ SILVER SPRING, MD, March 16, 2009
TO ALL RADIO AMATEURS
BID: $ANS-075.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org

NNNN
/EX

28. WSR-082 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-03-24 14:05:11 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001201c9ac89$83fddfc0$8bf99f40$@net>
Source record: 727
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-082.S1
WSR 082 Part 1 03/23/2009

AMSAT NEWS SERVICE BULLETIN 082.S1
FROM AMSAT HQ SILVER SPRING, MD, March 23, 2009
TO ALL RADIO AMATEURS
BID: $ANS-082.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V3/u1
SSTV - V4/ud3
BBS - OFF
Telemetry - OFF

Analog voice downlink: u1 - 435.300 MHz FM
u2 - 435.150 MHz FM
s - 2401.200 Mhz FM
Analog voice uplink: V1 - 145.880 MHZ FM
V2 - 145.880 MHz USB
V3 - 145.920 MHz FM
S - 1268.700 MHz FM 67Hz PL tone
Digital Downlinks: ud3 - 435.150 MHz FM 38k4 PBP, 1 watt output
ud9 - 435.150 MHz FM 9k6 Pacsat Broadcast
Protocol
s - 2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: V4 - 145.860 MHz FM 9k6 Pacsat Broadcast
Protocol
l - 1268.700 mhz FM 9k6 PBP Digital
Beacon: u - 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[03232009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

STS-119 crew:
Commander: Lee Archambault
Pilot: Tony Antonelli
Mission Specialist 1: Joseph Acaba
Mission Specialist 2: Steve Swanson
Mission Specialist 3: Richard Arnold
Mission Specialist 4: John Phillips
Mission Specialist 5: Koichi Wakata, KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[03232009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-082.S2
WSR 082 Part 2 03/23/2009

AMSAT NEWS SERVICE BULLETIN 082.S2
FROM AMSAT HQ SILVER SPRING, MD, March 23, 2009
TO ALL RADIO AMATEURS
BID: $ANS-082.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]

=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V3/u1
SSTV - V4/ud3
BBS - OFF
Telemetry - OFF

Analog voice downlink: u1 - 435.300 MHz FM
u2 - 435.150 MHz FM
s - 2401.200 Mhz FM
Analog voice uplink: V1 - 145.880 MHZ FM
V2 - 145.880 MHz USB
V3 - 145.920 MHz FM
S - 1268.700 MHz FM 67Hz PL tone
Digital Downlinks: ud3 - 435.150 MHz FM 38k4 PBP, 1 watt output
ud9 - 435.150 MHz FM 9k6 Pacsat Broadcast
Protocol
s - 2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: V4 - 145.860 MHz FM 9k6 Pacsat Broadcast
Protocol
l - 1268.700 mhz FM 9k6 PBP Digital
Beacon: u - 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[03162009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
RS-22 RADIO SPORT RS-22

Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

STS-119 crew:
Commander: Lee Archambault
Pilot: Tony Antonelli
Mission Specialist 1: Joseph Acaba
Mission Specialist 2: Steve Swanson
Mission Specialist 3: Richard Arnold
Mission Specialist 4: John Phillips
Mission Specialist 5: Koichi Wakata, KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[03232009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-082.S3
WSR 082 Part 3 03/23/2009

AMSAT NEWS SERVICE BULLETIN 082.S3
FROM AMSAT HQ SILVER SPRING, MD, March 23, 2009
TO ALL RADIO AMATEURS
BID: $ANS-082.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122

Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1

Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]

=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A

Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational?

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[03232009]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10

Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]

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/EX

SB SAT @ AMSAT W8ISS ANS-082.S4
WSR 082 Part 4 03/23/2009

AMSAT NEWS SERVICE BULLETIN 082.S4
FROM AMSAT HQ SILVER SPRING, MD, March 23, 2009
TO ALL RADIO AMATEURS
BID: $ANS-082.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====

PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]
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/EX

SB SAT @ AMSAT W8ISS ANS-082.S5
WSR 082 Part 5 03/23/2009

AMSAT NEWS SERVICE BULLETIN 082.S5
FROM AMSAT HQ SILVER SPRING, MD, March 23, 2009
TO ALL RADIO AMATEURS
BID: $ANS-082.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
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/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

29. ANS-081 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-03-24 14:24:54 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c9ac8c$46f574a0$d4e05de0$@net>
Source record: 728
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-081

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* SOHLA-1 Begins Operations
* Radio Club of America Donates Station to Florida Club
* AMSAT Awards
* Satellite Shorts From All Over
* ARISS Status - 16 March 2009

SB SAT @ AMSAT $ANS-081.01
SOHLA-1 Begins Operations

AMSAT News Service Bulletin 081.01
From AMSAT HQ SILVER SPRING, MD.
March 22, 2009
To All RADIO AMATEURS
BID: $ANS-081.01

SOHLA-1 examination use started on 17 March 2009. The reception report was as a powerful signal in 18 March. The normal operation will start from 25 Mar. The examination use schedule of then as follows.

The current amateur mode is only the broadcast of AFSK signal.
437.505MHz, AFSK 1200bps, AX.25

OBJECT E
1 33496U 09002E 09077.41247038 .00000497 00000-0 92137-4 0 1659
2 33496 098.0280 188.1849 0006449 198.4659 161.6367 14.69427465 7946

http://www.ne.jp/asahi/hamradio/je9pel/sohlacwe.htm

[ANS thanks Mineo, JE9PEL, for the above information]

/EX

SB SAT @ AMSAT $ANS-081.02
Radio Club of America Donates Station to Florida Club

AMSAT News Service Bulletin 081.02
From AMSAT HQ SILVER SPRING, MD.
March 22, 2009
To All RADIO AMATEURS
BID: $ANS-081.02

The Education Committee of the Radio Club of America says that it has received its first donation of a complete amateur radio station that will be given to the Lake Monroe Amateur Radio Club in Orlando, Florida. The Lake Monroe Amateur Radio Club has a specially equipped trailer that it takes to schools to demonstrate amateur radio communications. It also goes into schools and children's hospitals to demonstrate how to make contact with the International Space Station via ham radio. The club says it's extremely grateful to The Radio Club of America for the donation of the much-needed equipment.

[ANS thanks Newsline for the above information]

/EX

SB SAT @ AMSAT $ANS-081.03
AMSAT Awards

AMSAT News Service Bulletin 081.03
From AMSAT HQ SILVER SPRING, MD.
March 22, 2009
To All RADIO AMATEURS
BID: $ANS-081.03

The beginning of 2009 has been the busiest for AMSAT Awards since I took over processing awards in 2001.

We would like to welcome the following to the satellite community. They have made their first satellite contact and are now members of the AMSAT Satellite Communicators Club.

Jack Barbera, WA1ZDV
Marilyn Tillman, N4MGT
Mount Nebo VHF Contest Club, NE5BO
Rick Tillman, WA4NVM
Chris Meyers, KC0YBM
Richard Allen, N0CFL

The following have earned the AMSAT Satellite Communications Achievement Award.

Mount Nebo VHF Contest Club, NE5BO #483
Rick Tillman, WA4NVM #484
David Webb, KB1PVH #485

The following have earned the AMSAT South Africa Satellite Communications Achievement Award.

Douglas Anoman, KC9MLN #US130
Rick Tillman, WA4NVM #US131
David Webb, KB1PVH #US132

The following have upgraded their AMSAT Sexagesimal Satellite
Communication Achievement Award

Rick Tillman, WA4NVM #147

To see all the awards visit http://www.amsat.org or
http://www.amsatnet.com

[ANS thanks Bruce, KK5DO, for the above information]

/EX

SB SAT @ AMSAT $ANS-081.04
Satellite Shorts From All Over

AMSAT News Service Bulletin 081.04
From AMSAT HQ SILVER SPRING, MD.
March 22, 2009
To All RADIO AMATEURS
BID: $ANS-081.04

+ The AMSAT-DC WORKSHOP will be held on Saturday, April 25, at the NASA
Goddard Space Flight Center in Greenbelt, Md. Watch ANS news for the
Latest announcements. Contact information for Pat Kilroy via e-mail
is Patrick.L.Kilroy@nasa.gov.

+ Martha at AMSAT headquarters reminds members that rooms are available
In the AMSAT block. To get a room in the AMSAT block, you must be an
AMSAT Member, Volunteer to work the AMSAT Booth, and call Martha NOT
The hotel. Martha's office phone number is 301-589-6062.

+ Check out http://echoesofapollo.com/ for information about the "World
Moon Bounce Day" on June 27th 2009. This will feature several very
large dish stations which may allow reception on your VHF and UHF
Stations. An example of one of the large dishes can be seen at:
http://www.jamesburgdish.org/

+ The March edition of the AMSAT India Newsletter has been uploaded
to the archive at http://www.amsatindia.org/Newsletter/

+ The SwissCube Amateur Radio Cubesat planned to operate on a downlink
frequency of 437.505 MHz is planned for launch on the Polar Satellite
Launch Vehicle (PSLV) from India at the end of April 2009 along with
BeeSat, UEW-2 and ITU-pSat. See the details in the article on-line at:
http://www.southgatearc.org/news/march2009/swisscube_slideshow.htm

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-081.05
ARISS Status - 16 March 2009

AMSAT News Service Bulletin 081.05
From AMSAT HQ SILVER SPRING, MD.
March 22, 2009
To All RADIO AMATEURS
BID: $ANS-081.05

1. Upcoming School Contacts

Parkside Community College in Parkside, Cambridge, U.K. has been scheduled for an Amateur Radio on the International Space Station (ARISS) contact on Monday, March 30 at 17:00 UTC. Station GB4FUN will handle the connection.

The Girl's Middle School (GMS) in Mountain View, California has been scheduled for an Amateur Radio on the International Space Station (ARISS) contact on Monday, March 30 at 18:22 UTC via telebridge station K6DUE in Maryland. The contact is planned with spaceflight participant Charles Simonyi, KE7KDP/HA5SIK.
GMS is a small, independent school for girls in 6th - 8th grade. The school's mission is to nurture and empower girls during this pivotal time in their lives.
It looks for non-traditional educational opportunities to help girls expand their horizons.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled for Marcelino Canino Canino Middle School in Dorado, Puerto Rico. The contact will take place on Tuesday, March 31 at 15:36 UTC. The student body is made up of 577 students of which approximately 77% live under the poverty level.
100% of the students receive Title I services and over 100 students receive special education services. A Microsatellite Student Program has been implemented where students design, construct, build and launch microsatellites which are then tracked and recovered with the help of amateur radio operators.
The coordinating teacher has prepared a NASA Explorer Schools proposal and other science oriented proposals in the school to help motivate its largely underprivileged population to become competitive professionals in the global economy. Two contests have been held at the school - one for an activity logo and another for an essay. Scientists, state government functionaries, Department of Education representatives, and students from other grade levels in elementary and high school have been invited to attend the event. Of major interest to the students is the fact that Joseph Acaba, the first astronaut

of
Puerto Rican descent, will be going to the ISS on STS 119. The school is planning its own press releases and expects media coverage.

Milwee Middle School in Longwood, Florida has been scheduled for an Amateur Radio on the International Space Station (ARISS) contact on Wednesday, April 1
at 17:55 UTC via telebridge station ON4ISS in Belgium.

Carl Sandburg Elementary in the Lake Washington School district in Kirkland, Washington has been approved for an Amateur Radio on the International Space Station (ARISS) contact. The contact is slated for Thursday, April 2 at 19:35
UTC, assisted by telebridge station W6SRJ in California.

2. Contacts Cancelled

The Amateur Radio on the International Space Station (ARISS) contacts that were
planned for the Sewickley Academy and the DaVinci
Science Center on March 12 and
14, respectively, were both cancelled due to scheduling issues. The DaVinci contact will be rescheduled in the near future.

3. Astronaut Training Status

An Amateur Radio on the International Space
Station (ARISS) basic operations and
school contact training course was held with Satoshi Furukawa, KE5DAW, on Friday, March 6. Furukawa is currently assigned as a back up crew member for Expedition 22.

4. Italian School Contact Update

On Wednesday, February 25, students attending 1 Circolo Didattico G. Marconi in
Casamassima, Italy participated in an Amateur Radio on the International Space
Station (ARISS) contact with Mike Fincke, KE5AIT. News items covering the contact are now available. See:

http://www.youtube.com/watch?v=571IBetr5l8

http://www.thenewspaper.it/articles.php?article_id=100

http://www.thenewspaper.it/articles.php?article_id=89

5. ARRL Article on Discovery

The American Radio Relay League (ARRL) ran a short Web story on the STS-119 mission which will carry ham astronaut Koichi Wakata, KC5ZTA, to the ISS. See:
http://www.arrl.org/?artid=8825

The story was also posted in the ARRL Letter:
https://www.arrl.org/arrlletter/09/0313/

The ARRL Web site has 100,000 regular readers; the e-newsletter has a circulation of 115,000.

6. ARRL QST Covers ARISS News

The American Radio Relay League (ARRL) published an Amateur Radio on the International Space Station (ARISS) news item in its April 2009 issue of QST.

It ran a short article called "NJ Scouts Fly High." It is about Boy Scouts from the Central New Jersey Council earning their Radio Merit Badges, mentored by the Delaware Valley Radio Association and the David Sarnoff Radio Club. The highlight of the educational activities was when Greg Olsen, KC2ONX, gave a presentation to the boys about his time on the ISS and used Amateur Radio to be interviewed by students. There was a photo of the boys readying for their own QSOs on the air.

The ARRL monthly journal has a circulation of 150,000.

7. ARISS in Amateur Radio Newsline Article

On March 13, Amateur Radio Newsline (Report #1648) ran a story on the Radio Club of America (RCA) which donated a radio station to the Lake Monroe Amateur Radio Club in Orlando, Florida. The club gives demonstrations to schools and children's hospitals on how to contact the International Space Station with amateur radio. The article, "Radio Education: RCA Donates Station to Florida Club," may be viewed at: ftp://ftp.arnewsline.org/quincy/News/news.txt

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

30. ANS-083 AMSAT News Service Special Bulletin

Newsgroup: rec.radio.amateur.space
Date: 2009-03-24 17:30:03 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001101c9aca6$22531a70$66f94f50$@net>
Source record: 729
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE SPECIAL BULLETIN
ANS-083

In this edition:

* Frank H. Bauer, KA3HDO to Step Down from ARISS and AMSAT Duties
* Will Marchant, KC6ROL Appointed AMSAT's VP-Human Space Flight

SB SAT @ AMSAT $ANS-083.01
Frank H. Bauer, KA3HDO to Step Down from ARISS and AMSAT Duties

AMSAT News Service Bulletin 083.01
>From AMSAT HQ SILVER SPRING, MD.
March 24, 2009
To All RADIO AMATEURS
BID: $ANS-083.01

Frank H. Bauer, KA3HDO, announced today that, effective immediately, he will be stepping down from all his Amateur Radio on the International Space Station (ARISS) duties. This includes his contributions to NASA Education as the ARISS program leader, his support as the Amateur Radio on the International Space Station (ARISS) International Working Group Chair, his appointment as one of two ARISS USA delegates, and as the Radio Amateur Satellite Corporation's (AMSAT) Vice President for Human Spaceflight Programs.

Mr. Bauer cited personal and professional reasons for his departure. He is currently the Chief Engineer for the Exploration Systems Mission Directorate at NASA Headquarters. This directorate is developing the next generation human spaceflight vehicles that will take NASA to the International Space Station and then to the Moon, Mars and beyond. He is also providing some backup support to the Space Operations Chief Engineer who supports the Space Shuttle and International Space Station Programs. "Work responsibilities, which have increased substantially over the past couple of years, coupled with some recent health issues within my immediate family, led me to the conclusion that I could not continue to provide the leadership and passion that has been characteristic of my past support to these amateur radio endeavors," Mr. Bauer said. "This was a very hard decision. I will certainly miss the phenomenal ARISS international team and our mission to inspire the next generation of space explorers using ham radio as our platform. But I thought it would be best to step down at this juncture," Bauer explained. KA3HDO continues, "Over the past 12 years, we have developed, mentored and matured an outstanding volunteer team with a wide breadth and depth. I am fully confident that they will keep the ARISS program run-

ning smoothly without missing a beat."

AMSAT President Barry Baines, WD4ASW, has tapped Will Marchant, KC6ROL, to become the next AMSAT Vice President for Human Spaceflight Programs and the AMSAT USA delegate of the ARISS International Working Group. Barry Baines stated that "AMSAT is fortunate that we have a very capable leader in Will Marchant who is intimately familiar with ARISS, our extensive human spaceflight program, and is well respected internationally." Barry observed, "Frank's leadership has left a significant mark on the overall ARISS program and the cooperative relationship between amateur radio, NASA and other governmental space agencies. However, Frank also ensured that his team evolved to the point where the work that he pioneered will be carried on by those that he mentored and encouraged to take on greater responsibility."

In his new role, Will Marchant will work with the other ARISS USA delegate, Rosalie White, K1STO, from the American Radio Relay League (ARRL) and the other ARISS International Delegates and the ISS Space Agencies to coordinate the development and operations of the amateur radio systems onboard the ISS. Rosalie stated that "I look forward to working with Will in his new role. He has provided outstanding leadership and support to ARISS from its very beginning, most recently as an Operations team leader. And he helped pioneer the school group mentor role as part of the Shuttle Amateur Radio Experiment (SAREX) program in the early 1990's." She continued, "Frank will be missed tremendously. It is incredible how much volunteer time and effort he put into ARISS educational activities; it was easy to see it was his passion."

With Mr. Bauer stepping down from the ARISS International Chairman role, the ARISS International Vice Chair, Mr. Gaston Bertels, ON4WF will become the ARISS International Chairman effective immediately. Mr. Bertels has been a leader of ARISS from its inception and serves as the Chairman of the ARISS-Europe team. Mr. Bertels has established a close relationship between ARISS and ESA, the European Space Agency. This resulted in the development and the installation of ARISS L- and S-band antennas on the nadir of Columbus, the European Space Laboratory. Mr. Bertels also chairs the ARSPEX (Amateur Radio Space Exploration) working group of the International Amateur Radio Union, Region 1. Mr. Bertels stated: "We can understand the reasons of Frank Bauer's resignation, but we also feel how difficult this decision has been. Frank has inspired a worldwide group of passionate radio amateurs, working together to a common goal. Now it is up to us to continue in the same direction and with the same spirit. That's the best farewell present we can offer Frank".

Mr. Bauer's departure today represents the culmination of over 25 years of leadership and support to amateur radio activities on human spaceflight vehicles, including NASA sponsored ham radio activities on the Shuttle, Space Station Mir, and the International Space Station. Starting in 1983, he led the Goddard Amateur Radio Club team that provided

around-the clock Space Shuttle retransmissions from the WA3NAN club station. These retransmissions provided the international ham radio community up-to-the-minute information during the flight of Owen Garriott, W5LFL on STS-9 and subsequent SAREX flights. These real-time bulletins and frequent orbital element updates could only be obtained through amateur radio in the days prior to the internet. In 1991, AMSAT then President Bill Tynan, W3XO tapped Frank to be the AMSAT VP for Human Spaceflight, a position he has held until today.

In 1996, when the International Space Station design development was well underway, NASA Headquarters Education Office executive Pam Bacon (Mountjoy) requested that the amateur radio community form a single, international team to provide one voice for all ham radio development and operations on the ISS. The SAREX Working Group, led by Roy Neal, K6DUE, was tapped to turn this vision into reality. In November 1996, Roy (ARRL), with the other SAREX working group members Frank Bauer, KA3HDO (NASA/AMSAT), Rosalie White K1STO (ARRL), and Matt Bordelon, KC5BTL, (NASA) organized a joint NASA-international amateur radio meeting at the Johnson Space Center in Houston. This led to the formulation of the ARISS International Working Group of delegates representing Canada, Europe, Japan, Russia and the USA-and the rest is history.

Since those austere beginnings, the ARISS team of volunteers has developed and deployed ham radio equipment that resides in three modules of the ISS---the Service Module, the FGB and the Columbus Module as well as having deployed a short duration satellite in a space suit called SuitSat-1/Radioskaf/AO-54. These systems enable the ARISS team to inspire over 15,000 students each year, encouraging them to pursue careers in science, technology, engineering and mathematics through amateur radio communications with the ISS on-orbit crew. It also introduces these students and millions from the worldwide general public to the fun, exciting, multi-faceted world of amateur radio.

The Radio Amateur Satellite Corporation (AMSAT), is an educational, not-for-profit corporation founded 40 years ago and is based in Silver Spring, MD. Its primary objective is to foster Amateur Radio's participation in space research, communications, and education through the development and operation of amateur radio satellites in space. To date, there are over 60 amateur radio satellites that have been built by volunteers around the world and flown in space.

[ANS thanks ARISS International for the above information]

/EX

SB SAT @ AMSAT $ANS-083.02
Will Marchant, KC6ROL Appointed AMSAT's VP-Human Space Flight

AMSAT News Service Bulletin 083.02
>From AMSAT HQ SILVER SPRING, MD.
March 24, 2009
To All RADIO AMATEURS

BID: $ANS-083.02

AMSAT President Barry Baines, WD4ASW has appointed Will Marchant, KC6ROL of Marshall, VA as VP-Human Space Flight and to serve as the AMSAT USA delegate to the ARISS International Working Group. These appointments follow the resignation of Frank Bauer, KA3HDO that was announced on Tuesday morning, 24 March due to family and professional reasons.

"AMSAT is fortunate that we have a very capable leader in Will Marchant who is intimately familiar with ARISS, our extensive human spaceflight program, and is well respected internationally." Barry observed, "Frank's leadership has left a significant mark on the overall ARISS program and the cooperative relationship between amateur radio, NASA and other governmental space agencies. Frank has also ensured that his team evolved to the point where the work that he pioneered will be carried on by those that he mentored and encouraged to take on greater responsibility."

Will Marchant, KC6ROL was first licensed in 1990 when he was assisting search and rescue organizations in California and wanted to use amateur radio as a backup to local law enforcement communications. One of his early activities as an amateur radio operator was to track and listen for the space shuttle and MIR. Will increased his participation in amateur radio in space in 1992 with the Shuttle Amateur Radio Experiment (SAREX). At that time, he managed a shuttle contact with Lawrence Hall of Science of the University of California, Berkeley, CA with STS-57. >From that point on, Will increased his activities in the SAREX program following his relocation from Berkeley to Virginia in 1994. He served as a mentor for various school contacts and was appointed to serve as Operations Manager for SAREX in 1995. As SAREX Operations Manager Will coordinated both school contacts and 'family & friends' contacts for four years, spending time at Mission Control in Houston during SAREX missions managing these contacts.

When the Amateur Radio on the International Space Station (ARISS) International Working Group was established in 1996, Will was involved under Frank Bauer's leadership. The first International Space Station module was sent into orbit in 1998 and has been continuously manned since 2000. Over the past nine years (with two years 'off' from SAREX and ARISS to complete a Master's Degree in Space Sciences), Will has been heavily involved with ARISS Telebridge operations, School Technical Support, and training of personnel for amateur radio operations in Space. For example, Will worked extensively with Richard Garriott, W5KWQ prior to his 'space tourist' trip to the ISS in Fall 2008 to help him prepare for his amateur radio operations from space.

Rosalie White, K1STO of the ARRL is the other US Delegate to the ARISS International Working Group. She commented, "Will and I have worked closely together on a number of SAREX and ARISS projects over the years, and we 'click.' A hard worker, he believes strongly in the use of ARISS by teachers as an educational tool. I will absolutely miss Frank in our

work as US ARISS delegates and ARISS International Officers, but having Will step up is the consolation."

In response to his appointments, Will noted, "I'm excited about assuming responsibility as AMSAT's VP-Human Space Flight as well as serving as the AMSAT USA delegate to the ARISS International Working Group. ARISS continues to play a significant role in science education as well as providing an opportunity for AMSAT to participate in human activities in space. I look forward to working with an outstanding team that Frank created, encouraging greater educational outreach by AMSAT as well as working as AMSAT's delegate within ARISS International Working Group."
Currently based in Virginia, Will is employed by the University of California Berkeley as a senior programmer and is involved with several space science missions.

[ANS thanks AMSAT-NA President Barry Baines, WD4ASW for the above information]

/EX

31. WSR-089 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-03-31 02:29:40 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002101c9b1a8$82e13870$88a3a950$@net>
Source record: 730
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-089.S1
WSR 08 Part 1 03/30/2009

AMSAT NEWS SERVICE BULLETIN 089.S1
FROM AMSAT HQ SILVER SPRING, MD, March 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-089.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V3/u1
BBS - L/u9
Telemetry - /u

Analog voice downlink: u1 - 435.300 MHz FM
u2 - 435.150 MHz FM
s - 2401.200 Mhz FM
Analog voice uplink: V1 - 145.860 MHZ FM
V2 - 145.880 MHz USB
V3 - 145.920 MHz FM
S - 1268.700 MHz FM
Digital Downlinks: u3 - 435.150 MHz FM 38k4 PBP, 1 watt output
u9 - 435.150 MHz FM 9k6 Pacsat Broadcast
Protocol
s - 2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: V4 - 145.860 MHz FM 9k6 Pacsat Broadcast
Protocol
L - 1268.700 mhz FM 9k6 Pacsat Broadcast
Protocol
Beacon: u - 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[03302009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Koichi Wakata KC5ZTA

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt

Spaceflight Participant: Charles Simonyi

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[03302009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-089.S2
WSR 089 Part 2 03/30/2009

AMSAT NEWS SERVICE BULLETIN 089.S2
FROM AMSAT HQ SILVER SPRING, MD, March 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-089.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V3/u1
BBS - L/u9
Telemetry - /u

Analog voice downlink: u1 - 435.300 MHz FM
u2 - 435.150 MHz FM
s - 2401.200 Mhz FM
Analog voice uplink: V1 - 145.860 MHZ FM
V2 - 145.880 MHz USB
V3 - 145.920 MHz FM
L - 1268.700 MHz FM
Digital Downlinks: u3 - 435.150 MHz FM 38k4 PBP, 1 watt output
u9 - 435.150 MHz FM 9k6 Pacsat Broadcast
Protocol
s - 2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: V4 - 145.860 MHz FM 9k6 Pacsat Broadcast
Protocol
L - 1268.700 mhz FM 9k6 Pacsat Broadcast
Protocol
Beacon: u - 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP

L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[03302009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====

CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Koichi Wakata KC5ZTA

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt

Spaceflight Participant: Charles Simonyi

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[03302009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-089.S3
WSR 089 Part 3 03/30/2009

AMSAT NEWS SERVICE BULLETIN 089.S3
FROM AMSAT HQ SILVER SPRING, MD, March 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-089.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat

Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational?

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[03232009]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]

=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-089.S4
WSR 089 Part 4 03/30/2009

AMSAT NEWS SERVICE BULLETIN 082.S4
FROM AMSAT HQ SILVER SPRING, MD, March 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-089.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??

Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web page: http://www.amsat.org
[02212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-089.S5
WSR 089 Part 5 03/30/2009

AMSAT NEWS SERVICE BULLETIN 089.S5
FROM AMSAT HQ SILVER SPRING, MD, March 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-089.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)

* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
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_____
Via the ANS mailing list courtesy of AMSAT-NA
http://amsat.org/mailman/listinfo/ans

32. ANS-095 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-04-05 02:12:15 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000501c9b593$e973f340$bc5bd9c0$@net>
Source record: 731
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-095

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Recap of the Week of AMSAT-DL Earth-Venus-Earth Success
* AMSAT Getting Ready for Dayton 2009
* SV1BSX Silent Key
* Call for Papers--2009 ARRL/TAPR Digital Communications Conference
* ISS Active on SSTV
* AMSAT-UK, BATC, and RSGB Operate Parkside ARISS Contact
* AMSAT-DC Spring Workshop Open for Registration
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-095.01
Recap of the Week of AMSAT-DL Earth-Venus-Earth Success

AMSAT News Service Bulletin 095.01
>From AMSAT HQ SILVER SPRING, MD.
April 5, 2009
To All RADIO AMATEURS
BID: $ANS-095.01

As the outstanding technical achievement attained when an inter-national team lead by AMSAT-DL completed the Earth-Venus-Earth path on March 25 continues to reverberate throughout the Amateur Radio world a recap of the event and links to additional details is in order.

The team consisted of many well known amateurs including Wolfgang Bï¿½scher, DL4YHF; Freddy de Guchteneire, ON6UG; Hermann Hagner, DK8CI; Michael Lengrï¿½sser, DD5ER; Karl Meinzer, DJ4ZC; James Miller, G3RUH; Max Mï¿½nich, DJ1CR; Hartmut Paesler, DL1YDD; and Achim Vollhardt, DH2VA.

AMSAT-DL President Peter Guelzow, DB2OS provided a report of the accomplishment from the 20 meter dish located at the IUZ Sternwarte

Observatory in Bochum, Germany. The transmitter used a rubidium locked reference to generate about 6 kW CW on 2.4 GHz. The use of a magnetron for this purpose was possible thanks to a new AMSAT-DL developed modulator that enables a magnetron to be used for narrow band operation.

After traveling almost 100 million kilometers with a round trip delay of about 5 minutes, the transmitted signal was clearly received as echoes from the surface of Venus. FFT analysis software with an integration time of 5 minutes was used. After integrating for only 2 minutes the reflected signals were clearly visible in the display. Despite the bad weather, signals from Venus could be detected from 1038 UTC on until the planet reached the local horizon.

Receiving planetary echoes is a first in Germany and Europe. This also marks the farthest distance attained by radio amateurs. The distance via the Earth-Venus-Earth path is over 100 times further than the echoes from the moon via EME reflexions.

The official Press Release: "First German Mars Mission makes sidestep to Venus" can be downloaded as .PDF here:
http://www.amsat-dl.org/pic/gallery2/main.php?g2_view=core.DownloadItem&g2_i
temIdu61
(careful with line wrap!)

A news item in German with additional pictures and information can be viewed at:
http://www.amsat-dl.org//index.php?option=com_content&task=view&id166&Itemid□
(careful with line wrap!)

If you click on the small spectrum analyzer photograph embedded on this page you will be able to view a larger photo of the received signal. A photo of the AMSAT-DL Earth-Venus-Earth team is the second one.

Bob McGwier, N4HY observed the equipment and software used can be identified, "In the photographs attached to this press release, one can see the SDR-IQ (http://rfspace.com/Home.html) and Spectrum Lab (http://freenet-homepage.de/dl4yhf/spectra1.html)".

A video showing Karl Meinzer DJ4ZC and Freddy de Guchteneire ON6UG with the 2.4 GHz amplifier used for EVE which can be seen at:
http://tinyurl.com/EVE13cmAmp

A video of the Amateur Radio Mars Orbiter P5-A presentation given at the 2008 AMSAT-UK Colloquium by Achim Vollhardt DH2VA can be seen via
http://tinyurl.com/P5Apresentation

GO-Mars with AMSAT-DL's P5A Mission
http://www.ticket-to-mars.org/

Jess, W4MVB expressed the admiration of Amateur Radio operators around the world in his message, "Congratulations to you and your team for this

outstanding accomplishment! I simply can't believe how far we have come since I first heard OSCAR 1 & 2 transmitting "HI" from space. I feel privileged to be a witness to the kind of success our hobby has experienced thanks to you and all the dedicated amateurs around the world who have brought us to this point."

[ANS thanks AMSAT-DL; Trevor, M5AKA; Bob, N4HY for the above information]

/EX

SB SAT @ AMSAT $ANS-095.02
AMSAT Getting Ready for Dayton 2009

AMSAT News Service Bulletin 095.02
>From AMSAT HQ SILVER SPRING, MD.
April 5, 2009
To All RADIO AMATEURS
BID: $ANS-095.02

Gould, WA4SXM is looking for volunteers to help in the AMSAT booth during the 2009 Dayton Hamvention, May 15-17. He would like people to volunteer for 2 hour shifts on Friday, Saturday and Sunday. Multiple shifts are welcome.

Also needed is help with booth setup on Thursday May 14 and and take down on Sunday May 17. With enough people we have been able to setup and take down the booth in 3 - 4 hours (or less).

Please volunteer to Gould, WA4SXM at wa4sxm@amsat.org. This is a great opportunity to give back to AMSAT and to have an enjoyable time talking with other AMSAT members and future members.

Please visit the AMSAT website and follow the Hamvention information to find out the latest details on AMSAT activities at Dayton. Don't forget to order your banquet tickets via the website too.

AMSAT is also planning an number of activities and displays at Dayton highlighting our 40th Anniversary this year. Plan on visiting the AMSAT booth and relive 40 years of keeping amateur satellites in space.

[ANS thanks Gould, WA4SXM and Martha for the above information]

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SB SAT @ AMSAT $ANS-095.03
SV1BSX Silent Key

AMSAT News Service Bulletin 095.03
>From AMSAT HQ SILVER SPRING, MD.
April 5, 2009
To All RADIO AMATEURS
BID: $ANS-095.03

AMSAT received the sad news this week that satellite operator Mak, SV1BSX became a Silent Key. John, LA2QAA and Al, GM1SXX noted that, "The entire Amateur Satellite fraternity and in particular EU-AMSAT suffered a great loss".

Mak was a founding member of EU-Amsat together with LA2QAA and GM1SXX, a group dedicated to Amateur Radio Satellite enthusiasts. Mak created the AO-7 DX list and was an avid AO-7 operator.

LA2QAA recalls Mak worked very many people on 'The old Girl' (AO-7) giving many operators their first AO-7 contact with Greece. He continued, "It is both appropriate and fitting that so many operators offered their condolences on the AMSAT-BB for the very sad loss of my dear friend Mak SV1BSX. He was an inspiration to many newcomers to the satellite scene and his web pages will remain a source of inspiration to future potential Amateur satellite operators."

Nader, ST2NH - Rest in peace my Elemer Mak SV1BSX. We well miss you the on air and on the list. My condolences goes to all EU-AMSAT, AMSAT-BB lists members and to his family. God bless your soul.

Terry, G1WPR - I'm very sad to hear the bad news about Mak, it was always a pleasure to say hi to him via the sat's. He will be sadly missed, goodby my friend.

Frank, IW4DVZ - I have no words ... to talk with him was, like ever, a pleasure. My condolences to his family, rest in peace my friend.

Joe, K3SZH - Mak made his last entry in the AO-7 Logger on March 14, 2009 with 2109 QSOs. He will be missed by all of us. The AO-7 group salutes you with our antennas pointed straight up.

[ANS thanks John, LA2QAA and Al, GM1SXX for the above information]

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SB SAT @ AMSAT $ANS-095.04
Call for Papers--2009 ARRL/TAPR Digital Communications Conference

AMSAT News Service Bulletin 095.04
>From AMSAT HQ SILVER SPRING, MD.
April 5, 2009
To All RADIO AMATEURS
BID: $ANS-095.04

Technical papers are solicited for presentation at the 28th Annual ARRL and TAPR Digital Communications Conference to be held September 25-27, 2009 in Chicago, Illinois. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2009. Please send papers to:

Maty Weinberg
ARRL
225 Main St

Newington, CT 06111

or you can make your submission via e-mail to: maty@arrl.org

Papers will be published exactly as submitted and authors will retain
all rights.

[ANS thanks Steve, WB8IMY at the ARRL for the above information]

/EX

SB SAT @ AMSAT $ANS-095.05
ISS Active on SSTV

AMSAT News Service Bulletin 095.05
>From AMSAT HQ SILVER SPRING, MD.
April 5, 2009
To All RADIO AMATEURS
BID: $ANS-095.05

Charles Simonyi KE7KDP, a leading software pioneer and aviator, is
back in space on his second mission to the International Space Station
(ISS). AMSAT-NA Vice President of Human Spaceflight Will Marchant,
KC6ROL noted, "Charles said this morning that he is planning to take
more SSTV images. He will investigate the possibility of leaving the
VC-H1 SSTV gear in automatic mode. He also plans to do more voice
QSOs with the ham community. So you should monitor for SSTV and voice
activity this week. I would appreciate it if you would upload any SSTV
images you receive to the page at:
http://www.amsat.org/amsat/ariss/SSTV/index.php

The ARISS downlink frequency for voice and SSTV is 145.800 MHz FM.

[ANS thanks Will Marchant, KC6ROL for the above information]

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SB SAT @ AMSAT $ANS-095.06
AMSAT-UK, BATC, and RSGB Operate Parkside ARISS Contact

AMSAT News Service Bulletin 095.06
>From AMSAT HQ SILVER SPRING, MD.
April 5, 2009
To All RADIO AMATEURS
BID: $ANS-095.06

Parkside Community College in Parkside, Cambridge, U.K. held an
Amateur Radio on the International Space Station (ARISS) contact
on Monday, March 30. RSGB station GB4FUN handled the connection
between the school and Spaceflight Participant Charles Simonyi,
KE7KDP/HA5SIK.

Howard Long, G6LVB and Ciaran Morgan, M0XTD provided live video
streaming of the event via http://www.batc.tv. The video stream
was very successful receiving connections from Puerto Rico, India,

Netherlands, upstate New York, Canada, Marshall Space Flight Center, Johnson Space Center, and many in the UK including non amateurs.

The team is working on a video of the contact for release shortly. They hope to make this a regular part of future ARISS contacts in the UK.

[ANS thanks Howard, G6LVB and Ciaran, M0XTD for the above information]

/EX

SB SAT @ AMSAT $ANS-095.07
AMSAT-DC Spring Workshop Open for Registration

AMSAT News Service Bulletin 095.07
>From AMSAT HQ SILVER SPRING, MD.
April 5, 2009
To All RADIO AMATEURS
BID: $ANS-095.07

Greetings from the AMSAT-DC planning committee!

The 2009 AMSAT-DC meeting this year will be held on Saturday, April 25, at the NASA Goddard Space Flight Center in Greenbelt, MD.

This year we have a series of workshops organized around the building, testing, and operating of a small simulated satellite kit. The completed kit, soon to be widely known as a PICetSat II module, is a simple remote sensing unit that serves as an expendable high-altitude small balloon payload. It transmits downlink telemetry on the 70cm Amateur Radio band.

Once group will construct the PICetSat II module kit. Another group will assemble a ground station which involves providing and configuring radios, computers, and software needed to receive, decode, and analyze the PICetSat II telemetry.

If you plan on attending, chose one of the following options:

(1) PICetSat II module builder (room for only 10 participants)
* current AMSAT membership
* admission $90.00 (pre-paid)
* bring a 25-watt pencil iron, holder, sponge, and your eye glasses if needed
* you take your completed "flight ready" module home with you!

(2) Ground Station Component Provider (transceiver or Computer) to "share" during the workshop
* current AMSAT membership
* admission $20.00 (pre-paid)
* Transceiver (room for only 3 participants)
+ Covers down to 433 MHz FM & SSB
+ Tunes in 1 kHz resolution or better

+ Audio cable (xcvr audio out) with 1/8 inch stereo end for computer
+ "simple" 70cm antenna, for example a random wire, dummy load, or
"Arrow" antenna on a camera tripod
* computer (room for only 3 participants)
+ XP operating system
+ MS Office (Word, PowerPoint, Excel) or OPEN Office
+ Willingness to install the PICetSat II software suite (to be
provided on CD-R on April 25)
+ DB-9 Serial port connection, or proven USB to DB-9 converter
+ Soundcard with 1/8" stereo input that accepts audio line-level
signal
+ WiFi "G", optional but recommended

(3) General Admission (10 slots available)
* current AMSAT membership
* admission $40.00 (pre-paid)

(4) AMSAT VIPs
* AMSAT Lifetime Membership
* Admission - FREE

To sign up - contact Martha at the AMSAT-NA office (301-589-6062)
with your preference (Satellite Builder, Ground Station Component
Provider indicating computer or transceiver, General Admission,
or AMSAT VIP), fee payment, and your contact information.

Direct any technical questions to the event coordinators.

Event Coordinators:
Pat Kilroy, N8PK (Patrick.L.Kilroy@nasa.gov)
Bruce Semple, WA3SWJ (bruce.semple@verizon.net)

Slots are limited. First come, first served.
YOUR RESPONSES AND ADMISSION REQUIRED TO MARTHA BEFORE:
5:00pm EDT Wednesday, April 16.

[ANS thanks Patrick Kilroy, N8PK and Bruce Semple, WA3SWJ for
the above information]

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SB SAT @ AMSAT $ANS-095.08
Satellite Shorts From All Over

AMSAT News Service Bulletin 095.08
>From AMSAT HQ SILVER SPRING, MD.
April 5, 2009
To All RADIO AMATEURS
BID: $ANS-095.08

+ The status of New Zealand's AMSAT-ZL - KiwiSat - has just been
updated. Check out their steady march to a launch at:
http://kiwisat.org/index.html

+ Congratulations to Mike Fincke KE5AIT! He now holds the record
for the most ARISS contacts on a single expedition as well as the
most for multiple missions. Expedition 18 has now set the record
for ARISS contacts by an expedition.
Total number of ARISS ISS to earth school contacts is 426.
Total number of ARISS supported terrestrial contacts is 22.

+ With 660 stations using the AO-7 logger worldwide 24 stations have
made the 1000 plus list of QSOs. Five of those stations eclipsed
the the 2000 mark: AJ9K Dan - 2001 QSO; N3TE Steve - 2045 QSO;
9A2SB Zlatko - 2103 QSO; OH8MBN Mika - 3000 QSO. Visit the AO-7
log page at http://www.planetemily.com/ao7/ao7log.php (via K3SZH)

+ LU2DPW now holds the first and second place standing for distance
via AO-7. A CW contact between W4FDU and LU2DPW attained first place
with 7537 KM. A contact between AA4FL and LU2DPW is in second place
with 7524 KM. K3SZH and PY4AJ hold third place with 7438 KM.

+ PCSAT-1 (NO-44) orbit was in a full sun period until March 30.
Control Station DK3WN notes that despite efforts to activate
PCSAT it does not remain on for an entire pass due to unfavor-
able illumination angles on the solar cells. PCSAT is only
available during daylight passes on 145.825 MHz packet.

+ Iridium announced the company completed the replacement of the
operational Iridium satellite lost in the collision three weeks
ago with a non-operational Russian satellite on March 4.
(via SpaceDaily Express)

+ The American and Russian pair set to take over the International Space

Station (ISS) will be the first part of the doubling of its permanent
crew. The launch from the Baikonur cosmodrome, Michael Barratt and
Gennady Padalka, said their mission marked a new phase in the history
of the ISS as the permanent crew is to be enlarged from three to six
in May. (via SpaceDaily Express)

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office. With that please
keep in mind that should you accidentally eat the dictionary do not
breathe a word to anyone.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

33. Radio Meteor Obs. Bull. March 2009

Newsgroup: rec.radio.amateur.space
Date: 2009-04-07 19:43:45 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <v4bnt45pngdana3md27glodtt90u35g268@4ax.com>
Source record: 732
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 188 of March 2009 (70 K) is available now as

http://www.rmob.org/rmobtext/rmob0903.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

34. WSR-096 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-04-08 01:15:00 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002d01c9b7e7$6842b3a0$38c81ae0$@net>
Source record: 733
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-096.S1
WSR 096 Part 1 04/06/2009

AMSAT NEWS SERVICE BULLETIN 096.S1
FROM AMSAT HQ SILVER SPRING, MD, April 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-096.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V3/u1
BBS - L9/u9
Telemetry - /u

Analog voice downlink: u1 - 435.300 MHz FM
u2 - 435.150 MHz FM
s - 2401.200 Mhz FM
Analog voice uplink: V1 - 145.860 MHZ FM
V2 - 145.880 MHz USB
V3 - 145.920 MHz FM
L - 1268.700 MHz FM
Digital Downlinks: u3 - 435.150 MHz FM 38k4 PBP, 1 watt output
u9 - 435.150 MHz FM 9k6 Pacsat Broadcast
Protocol
s - 2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: V4 - 145.860 MHz FM 9k6 Pacsat Broadcast
Protocol
L9 - 1268.700 mhz FM 9k6 Pacsat Broadcast
Protocol
Beacon: u - 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[03302009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS

Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[04062009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-096.S2
WSR 096 Part 2 04/06/2009

AMSAT NEWS SERVICE BULLETIN 096.S2
FROM AMSAT HQ SILVER SPRING, MD, April 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-096.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498

Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL

=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====

CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V3/u1
BBS - L9/u9
Telemetry - /u

Analog voice downlink: u1 - 435.300 MHz FM
u2 - 435.150 MHz FM
s - 2401.200 Mhz FM
Analog voice uplink: V1 - 145.860 MHZ FM
V2 - 145.880 MHz USB
V3 - 145.920 MHz FM
L - 1268.700 MHz FM
Digital Downlinks: u3 - 435.150 MHz FM 38k4 PBP, 1 watt output
u9 - 435.150 MHz FM 9k6 Pacsat Broadcast
Protocol
s - 2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: V4 - 145.860 MHz FM 9k6 Pacsat Broadcast
Protocol
L9 - 1268.700 mhz FM 9k6 Pacsat Broadcast
Protocol
Beacon: u - 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[03302009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60

[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[040602009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-096.S3
WSR 096 Part 3 04/06/2009

AMSAT NEWS SERVICE BULLETIN 096.S3
FROM AMSAT HQ SILVER SPRING, MD, April 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-096.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]

=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====

NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?

Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational?

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM

1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[03232009]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-096.S4
WSR 096 Part 4 04/06/2009

AMSAT NEWS SERVICE BULLETIN 096.S4
FROM AMSAT HQ SILVER SPRING, MD, April 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-096.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]

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/EX

SB SAT @ AMSAT W8ISS ANS-096.S5
WSR 096 Part 5 04/06/2009

AMSAT NEWS SERVICE BULLETIN 096.S5
FROM AMSAT HQ SILVER SPRING, MD, April 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-096.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

35. WSR-103 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-04-14 01:35:36 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001001c9bca1$4564cbc0$d02e6340$@net>
Source record: 734
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-103.S1
WSR 103 Part 1 04/13/2009

AMSAT NEWS SERVICE BULLETIN 103.S1
FROM AMSAT HQ SILVER SPRING, MD, April 13, 2009
TO ALL RADIO AMATEURS
BID: $ANS-103.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - L/u1s
BBS - OFF
Telemetry - /u

Analog voice downlink: u1 - 435.300 MHz FM
u2 - 435.150 MHz FM
s - 2401.200 Mhz FM
Analog voice uplink: V1 - 145.860 MHZ FM
V2 - 145.880 MHz USB
V3 - 145.920 MHz FM
L - 1268.700 MHz FM
Digital Downlinks: u3 - 435.150 MHz FM 38k4 PBP, 1 watt output
u9 - 435.150 MHz FM 9k6 Pacsat Broadcast
Protocol
s - 2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: V4 - 145.860 MHz FM 9k6 Pacsat Broadcast
Protocol
L9 - 1268.700 mhz FM 9k6 Pacsat Broadcast
Protocol
Beacon: u - 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04132009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS

Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[04062009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-103.S2
WSR 103 Part 2 04/13/2009

AMSAT NEWS SERVICE BULLETIN 103.S2
FROM AMSAT HQ SILVER SPRING, MD, April 13, 2009
TO ALL RADIO AMATEURS
BID: $ANS-103.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498

Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL

=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====

CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - L/u1s
BBS - OFF
Telemetry - /u

Analog voice downlink: u1 - 435.300 MHz FM
u2 - 435.150 MHz FM
s - 2401.200 Mhz FM
Analog voice uplink: V1 - 145.860 MHZ FM
V2 - 145.880 MHz USB
V3 - 145.920 MHz FM
L - 1268.700 MHz FM
Digital Downlinks: u3 - 435.150 MHz FM 38k4 PBP, 1 watt output
u9 - 435.150 MHz FM 9k6 Pacsat Broadcast
Protocol
s - 2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: V4 - 145.860 MHz FM 9k6 Pacsat Broadcast
Protocol
L9 - 1268.700 mhz FM 9k6 Pacsat Broadcast
Protocol
Beacon: u - 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04132009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60

[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[040602009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-103.S3
WSR 103 Part 3 04/13/2009

AMSAT NEWS SERVICE BULLETIN 103.S3
FROM AMSAT HQ SILVER SPRING, MD, April 13, 2009
TO ALL RADIO AMATEURS
BID: $ANS-103.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]

=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====

NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?

Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational?

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM

1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[03232009]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-103.S4
WSR 1036 Part 4 04/13/2009

AMSAT NEWS SERVICE BULLETIN 103.S4
FROM AMSAT HQ SILVER SPRING, MD, April 13, 2009
TO ALL RADIO AMATEURS
BID: $ANS-103.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]

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/EX

SB SAT @ AMSAT W8ISS ANS-103.S5
WSR 103 Part 5 04/13/2009

AMSAT NEWS SERVICE BULLETIN 103.S5
FROM AMSAT HQ SILVER SPRING, MD, April 13, 2009
TO ALL RADIO AMATEURS
BID: $ANS-103.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

36. ANS-102 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-04-14 01:36:55 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001101c9bca1$75d500e0$617f02a0$@net>
Source record: 735
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-102

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Richard Garriott, W5KWQ, wins 2009 Hamvention Special Achievement Award
* AMSAT Forum at Dayton Hamvention
* KiwiSat Status Update
* Further Delays for SumbandilaSat Launch
* Satellite Shorts From All Over
* Wind Farm interference
* Busy Week of Successful ARISS Contacts
* ARISS Status - 06 April 2009

SB SAT @ AMSAT $ANS-102.
Richard Garriott, W5KWQ, wins 2009 Hamvention Special Achievement Award

AMSAT News Service Bulletin 102.
>From AMSAT HQ SILVER SPRING, MD.
April 12, 2009
To All RADIO AMATEURS
BID: $ANS-102.

Richard Garriott, W5KWQ, is a legendary video game programmer/designer and ham radio operator who was the sixth private citizen to fly to the International Space Station (ISS).

Like his father, Owen Garriott, W5LFL, who made history as the first ham to communicate from space with radio amateurs during the STS-9 Space Shuttle mission, Richard was a ham radio pathfinder in his own right through on-orbit experimentation, implementation of new capabilities, extensive operations using many diverse operations modes, and phenomenal educational outreach initiatives that inspired and transformed the lives of tens of thousands students, worldwide.

Garriott was the most prolific ham radio operator to fly on a short duration (<15 day) mission. During his 10 day stay on the ISS over 500 2-way voice QSOs were conducted, over a thousand SSTV images were down linked. He communicated with tens of thousands of students in schools around the world. Garriott also had numerous random chats with scouts world-wide as part of the amateur radio Jamboree on the Air (JOTA).

Hamvention¿½ Chairman Carl Rose, K8CPR, praised the winners, saying: "On behalf of the Dayton Amateur Radio Association and Hamvention¿½ 2009
it is my pleasure to congratulate this year's Award Winners. Their outstanding contributions and the many years of service exemplify what the amateur radio service is."

Richard will also be the keynote speaker at the AMSAT/TAPR Banquet during Hamvention 2009. The Banquet will be on Friday evening, 15 May 2009. There is limited seating for the banquet, and tickets may be purchased for $30 on-line at the AMSAT store or by contacting Martha at the AMSAT office.

Richard will give a short presentation at the AMSAT Forum on Saturday morning, and visit the AMSAT & ARRL booths.

[ANS thanks The Dayton Amateur Radio Association for the above information]

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SB SAT @ AMSAT $ANS-102.
AMSAT Forum at Dayton Hamvention

AMSAT News Service Bulletin 102.
>From AMSAT HQ SILVER SPRING, MD.
April 12, 2009
To All RADIO AMATEURS
BID: $ANS-102.

The AMSAT Forum at the 2009 Dayton Hamvention will be on Saturday, 16 May from 11:15 to 13:30 in Room 5.

The speakers and their topics at this year's forum are listed below, the order will probably change. The Hamvention site now has the entire list of Forums and times posted on their web site

AMSAT Forum

Moderator: Rick Hambly, W2GPS AMSAT Past President and current member of the Board of Directors

Richard Garriott, W5WKQ On October 12, 2008 Richard Garriott launched into space aboard Soyuz TMA 13 and became the first second generation american in space. Richard's father Owen is a NASA astronaut and carried

the first ham radio to orbit on his second flight in 1983 aboard the 9th shuttle flight. Richard will touch on his training, the flight and

his impressions from space, and highlight his ham radio activities.

Barry Baines, WD4ASW AMSAT President "AMSAT Status Report: What is happening with AMSAT?" Barry will highlight current activities within AMSAT and discuss some of the challenges facing the organization.

Gould Smith, WA4SXM, AMSAT VP-Member & User Services and SuitSat-2 Systems Engineer "SuitSat-2 Status Report". Gould will provide an overview of AMSAT's current engineering project which is projected being developed for ARISS to be shipped to Russia this Fall for eventual placement on the International Space Station and subsequent release into space.

Drew Glasbrener, KO4MA, AMSAT VP-Operations, "AMSAT Satellite Operations Update" which will provide an overview of current satellite operations as well as discuss future satellite opportunities currently under consideration.

Will Marchant, KC6ROL, AMSAT VP-Human Space Flight, "A Ham Radio Operator's View of ARISS". He will outline several new initiatives under development for Amateur Radio on the International Space Station (ARISS) that will interest amateur radio operators.

Lou McFadin, W5DID, ARISS Hardware Manager "Antennas for the Columbus Module" Lou will discuss the latest piece of amateur radio equipment to be shipped to the European Space Agency for deployment to the ISS and explain the significance of this development.

[ANS thanks Gould, WA4SXM, for the above information]

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SB SAT @ AMSAT $ANS-102.
KiwiSat Status Update

AMSAT News Service Bulletin 102.
>From AMSAT HQ SILVER SPRING, MD.
April 12, 2009
To All RADIO AMATEURS
BID: $ANS-102.

In a gesture of support for KiwiSAT the Auckland VHF Group (NZART Branch 66) have donated $1000 for the purchase of the special Aluminium blocks from which the very structure of KiwiSAT will be milled. For maximum stability, light weight and overall integrity, the frame of our satellite will be milled from solid blocks of Aluminium.

Over the next few weeks KiwiSAT will finally start to take shape. There is much work to be done but we now making "solid" progress.

Mike Jack of Stanier Engineering, a small specialist precision engineering company based in Auckland, is now milling the main frame from those solid blocks. The first tray is to hand and looking great. Strength and precision are two major factors as this first plate, the

foundation stone for the final structure, will carry the whole load
at launch.

We are most grateful to Mike for the use of his costly machinery and
for donating his very valuable time to this project.

Many more details and video of the milling process are available on
the KiwiSatweb site: http://kiwisat.org/index.html

[ANS thanks AMSAT-ZL for the above information]

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SB SAT @ AMSAT $ANS-102.
Further Delays for SumbandilaSat Launch

AMSAT News Service Bulletin 102.
>From AMSAT HQ SILVER SPRING, MD.
April 12, 2009
To All RADIO AMATEURS
BID: $ANS-102.

Launch date is now only late July 2009

In early January the Department of Science and Technology signed
the SumbandilaSat launch contract with Roscosmos setting the
launch date at 25 March 2009. This date was later postponed till
May but the latest is a further postponement till late July. No
reasons have been given. However rumors have it that one of the
main payloads is delayed.

The fact that launch will now take place on a Soyuz launcher at
Baikonur as opposed to the previous Shtil from a submarine, en-
sured that a new Interface Control Document (ICD) had to be issued.
This meant that each element of the new ICD had to be check against
the previous one and an impact report on the differences had to be
compiled. Normally the base plate modifications, various types of
vibration, and some electrical issues from the basis of the changes
but the ICD is very comprehensive and contains all elements related
to on-site safety.

>From 25 August 2008 to the present time SunSpace, with permission
from the DST and under contract to Stellenbosch University, conducted
systems tests at ISSA to ensure that the satellite is launch-ready
after its been moth balled for more than two years. All the individual
systems have been declared functional and the only outstanding items
are some control system software updates caused by the change in orbit
parameter from South-North to North-South. The updates have been
tested, work and will be uploaded within the week. Final mission
scenario testing will then be carried out and is expected to be
successful.

[ANS thanks SA AMSAT for the above information]

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SB SAT @ AMSAT $ANS-102.
Satellite Shorts From All Over

AMSAT News Service Bulletin 102.
>From AMSAT HQ SILVER SPRING, MD.
April 12, 2009
To All RADIO AMATEURS
BID: $ANS-102.

+ The Hudson Valley Satcom group Net meets Thursdays at 8 PM EST. The Echolink node is n2eyh-l. You are invited to join and share your satellite knowledge. (via WA2AQH)

+ Ed, WA4SWJ, AMSAT Journal Editor reports that the March/April issue of the Journal has been uploaded to the printer. You should have it in your hands in 2-3 weeks.

+ Ciaran, M0XTD has posted the video of the UK contact with Charles Simonyi from March 30 at: http://www.it-sparkles.co.uk/ARISS/Parkside.aspx - there are links to wmv, mov, mp4 and mpeg versions. Howard G6LVB has also made his video available at: http://www.g6lvb.com/ParksideCut.wmv (138MB).

+ Neven, 9A5YY plans to operate on AO-51, AO-27 and SO-50 with his handheld Yaesu VX-7R and AL-800 antenna during his stay in Peru April 11-19. Listen for the callsigns 9A5YY/OA4 from Lima and as 9A5YY/OA7 from Cuzco.

+ The Teresina DX Group is preparing for the PS8DX DXpedition to Brazil's Canary Island (IOTA-072) on the coast of Piaui, Brazil in grid GI97bf. Dates of operation will be between April 29 to May 3. Satellite operation will include AO-7, FO-29, AO-51, VO-52, SO-50 and ISS if available. Team members include PS8BBC, PS8DX, PS8ET, PS8FSM, PS8HF, PS8JN, PS8NF, PS8PY, PS8RF,PS8TV.

[ANS thanks everyone for the above information]

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SB SAT @ AMSAT $ANS-102.
Wind Farm interference

AMSAT News Service Bulletin 102.
>From AMSAT HQ SILVER SPRING, MD.
April 12, 2009
To All RADIO AMATEURS
BID: $ANS-102.

The UK regulator, Ofcom, has published a document about the effects of interference to UHF & SHF communications by Wind Farms.

The report, by ERA Technology Ltd and Aegis Systems Ltd, describes a technical study in which a series of measurements were carried out

with regard to the presence of wind turbines near to wireless services. The purpose of the study was to enhance understanding of the effects of wind turbines near to wireless services

Some of their findings include:

* A single turbine can produce measured fades as large as 3 dB for UHF scanning telemetry links and 2 dB for fixed links operating between 1.5 and 18 GHz, when the turbine is lying on the trans-mitter-receiver path.

* A wind farm (with seventeen turbines) can produce measured fades as large as 10 to 15 dB for 1% of the time when the wind farm is lying on the transmitter-receiver path.

The full report in PDF Format is available:
http://www.ofcom.org.uk/radiocomms/ifi/licensing/classes/fixed/Windfarms/rf_
measurement/windfarm_report.pdf

[ANS thanks Trevor, M5AKA, for the above information]

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SB SAT @ AMSAT $ANS-102.
Busy Week of Successful ARISS Contacts

AMSAT News Service Bulletin 102.
>From AMSAT HQ SILVER SPRING, MD.
April 12, 2009
To All RADIO AMATEURS
BID: $ANS-102.

1. U.K. Students Contact the ISS

On Monday, March 30, students from Parkside Community College in Cambridge, U.K. took part in an Amateur Radio on the International Space Station (ARISS) contact. Spaceflight Participant Charles Simonyi, KE7KDP/HA5SIK answered 17 questions put to him by the students as an audience of approximately 200 watched. British Amateur Television Club (BATC) streamed video of the event on its Web site.

2. U.S. Girls Speak with Spaceflight Participant via Radio

The Girl's Middle School (GMS) in Mountain View, California exper-ienced a successful Amateur Radio on the International Space Station (ARISS) contact on Monday, March 30 via telebridge station K6DUE in Maryland. Twenty girls asked one question each of Charles Simonyi, KE7KDP/HA5SIK as sixty students looked on. The audio was fed into the EchoLink AMSAT and JK1ZRW servers and received 15 connections from stations in the U.S., Poland, Italy, Germany, England, Canada and Brazil.

3. ISS Radio Contact with Japanese Students

An Amateur Radio on the International Space Station (ARISS) contact took place on Tuesday, March 31 between Mike Fincke, KE5AIT and students from Science Dream Association (SDA) in Kobe-city, Japan. The original scheduled pass was too low for a successful contact. Mike Fincke and Koichi Wakata made a connection on the following pass and Fincke was able to answer 22 questions before the ISS went over the horizon. An audience of approximately 100 people attended the event and four newspapers provided media coverage.

4. ARISS Contact with Puerto Rican Students

On Tuesday, March 31, students attending Marcelino Canino Middle School in Dorado, Puerto Rico participated in an Amateur Radio on the International Space Station (ARISS) contact with Spaceflight Participant Charles Simonyi, KE7KDP/HA5SIK. Simonyi answered all 15 questions posed to him by the children. Approximately 300 students and 60 adults, including the Secretary of Education, were present for the event. There was no media coverage, but the school plans to provide television stations with a DVD of the contact. Marcelino is a 2005 NASA Explorer School (NES).

5. Australian Students Question Astronaut

Kalori Catholic School students in Wallaroo, Australia spoke with Mike Fincke, KE5AIT on Wednesday, April 1. The Amateur Radio on the International Space Station (ARISS) contact was facilitated by telebridge station WH6PN in Hawaii. Students were able to have all seventeen questions answered. The audio was fed into the Echo-Link AMSAT and JK1ZRW servers and received six connections from stations in England, Germany, Switzerland, and the U.S.

6. Florida Students Speak with Spaceflight Participant

Milwee Middle School students in Longwood, Florida spoke with Charles Simonyi,KE7KDP/HA5SIK on Wednesday, April 1. This Amateur Radio on the International Space Station (ARISS) contact was made possible through telebridge station ON4ISS in Belgium. The students were able to ask 11 questions of the spaceflight participant before the ISS went over the horizon. The audio was fed into the EchoLink AMSAT and JK1ZRW servers and received 10 connections from stations located in Belgium, England, Germany, Switzerland and the U.S.

7. Japanese Students Radio ISS

On Thursday, April 2, students from Miyahara Elementary School in Saitama, Japan participated in an Amateur Radio on the International Space Station (ARISS) contact. Fourteen students asked one question each of Koichi Wakata, KC5ZTA in front of an audience of 450. Media coverage included two television stations, including NHK (The Japan Broadcasting Corporation), seven newspapers and two magazines.

8. ARISS ï¿½ France Contact Successful

Albert Camus and Jules Verne Elementary Schools in Viry Chï¿½tillon, France experienced a joint Amateur Radio on the International Space Station (ARISS) contact on Thursday, April 2. Mike Fincke, KE5AIT answered 16 questions posed to him by the students. Approximately 150 were present for the event including the mayor of Viry-Chatillon and Mr. Alberto Novelli, representing ESA. Local newspapers and "Le Parisien" reported the news. The audio was fed into the EchoLink AMSAT and JK1ZRW servers and received three connections from stations in the U.S., China and England.

This was the last contact of Expedition 18 and Mike Fincke's 40th contact during this increment.

9. Carl Sandburg Elementary Participates in ARISS Contact

On Thursday, April 1, students attending Carl Sandburg Elementary School in Kirkland, Washington experienced an Amateur Radio on the International Space Station (ARISS) contact which was made possible through telebridge station W6SRJ in California. Charles Simonyi, KE7KDP/HA5SIK answered the 20 questions put to him by the students. An audience of approximately 75 students, teachers and parents were present for the contact. The audio was fed into the EchoLink AMSAT and JK1ZRW servers and received ten connections from stations located in England, New Zealand, Turkey and the U.S.

King-TV posted an article covering the event. See:
http://www.king5.com/localnews/stories/NW_040209EDB-space-station-simonyi
-KC
.98b4140c.html

[ANS thanks Carol, KB3LKI, for the above information]

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SB SAT @ AMSAT $ANS-102.
ARISS Status - 06 April 2009

AMSAT News Service Bulletin 102.
>From AMSAT HQ SILVER SPRING, MD.
April 12, 2009
To All RADIO AMATEURS
BID: $ANS-102.

1. ARISS News on Amateur Radio Newsline

On April 3, the Amateur Radio Newsline Report 1651 ran 2 Amateur Radio on the International Space Station (ARISS) news items. The first, "Names in the News: Dayton Hamvention Announces 2009 Award Winners," covers Richard Garriott as the Special Achievement Award recipient. The second item, "Ham Radio in Space: KE7KDP Again Operating from the ISS," is about Charles Simonyi's mission, including his ARISS school contacts. See: ftp://ftp.arnewsline.org/quincy/News/news.txt

2. Charles in Space Web Site

The Charles in Space Web site has a section where the public has posted space related questions concerning Charles' current mission and his Amateur Radio on the International Space Station (ARISS) activities. To view the questions and answers, see: http://www.charlesinspace.com/index.cfm?fuseaction=Read_the_Answers.welcome#

3. General Contacts and SSTV

Over the past week, Charles Simonyi, KE7KDP/HA5SIK made several general contacts with ground stations around the world including those in the U.S., Canada, Australia, Hungary and Venezuela. He also transmitted Slow Scan Television (SSTV) images using the VC-H1. Images may be viewed on the Amateur Radio on the International Space Station (ARISS) SSTV gallery site: http://www.amsat.org/amsat/ariss/SSTV/

4. Astronaut Training Status

On Monday, March 30, the Amateur Radio on the International Space Station (ARISS) team provided training to Mike Fossum to prepare him for the ham radio licensing exam. ARISS member Kenneth Ransom is also working with other astronauts from Expeditions 25 - 28 to get them trained and licensed.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS
ku4os at amsat dot org

37. ANS-109 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-04-19 15:11:48 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000301c9c101$202edd00$608c9700$@net>
Source record: 736
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-109

ANS is a free, weekly, news and information service
of AMSAT North America, The Radio Amateur Satellite
Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share
an active interest in designing, building, launching
and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Activites at Dayton 2009
* AMSAT/TAPR Banquet Note
* HAMSAT
* SumbandilaSat: From Sub To Space
* Satellite Shorts
* Balloon Launch-Assist in Tracking
* ARISS Schedule

SB SAT @ AMSAT $ANS-109.1
AMSAT Activites at Dayton 2009

From AMSAT HQ SILVER SPRING, MD.
April 19, 2009
To All RADIO AMATEURS
BID: $ANS-109.1

In addition to being the keynote speaker at the AMSAT/TAPR
Banquet on Friday, Richard Garriott, entrepreneur, game
programmer and space tourist will being visiting the AMSAT
booth on Friday and Saturday. Come by and meet Richard,
the specific times will be available soon. We will be
having our Thursday night get-together at a new location
this year - Tickets Pub in Fairborn. The menu has many
tasty items, so come by and visit with your AMSAT friends.
Drew and Keith will be leading the outdoor satellite
demonstrations this year. They will have two types of
stations setup and operational - computer controlled
station and handheld station.
This is the 40th Anniversary of AMSAT, we have a great

tee design by Steve Kenwolf to celebrate the event as
well as many pices of AMSAT memorabilia on display.
Members of the SuitSat-2 team will have a complete
operational SuitSat protoype with an experiment. As
always there will be new publications, frequency
chart, LVB Trackers and premiums for membership
renewal. The AMSAT Forum is Saturday moring
11:15 to 13:30 in Room 5. Visit the AMSAT web
site for additional information. Come by booths
444-449 during the May 15-17 2009 Dayton Hamvention.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-109.2
AMSAT/TAPR Banquet Note

AMSAT News Service Bulletin 109.2
From AMSAT HQ SILVER SPRING, MD.
April 19, 2009
To All RADIO AMATEURS
BID: $ANS-109.2

The Dayton AMSAT/TAPR banquet is just about 1 month away.
Our Guest Speaker is Richard Garriott, W5KWQ. If you have
not registered, go to the AMSAT website and look on the
left hand side. There will be a box that says
Dayton Hamvention. Click on that and it will lead you
to the banquet registration. You MUST be pre- registered
to attend. You cannot register at Dayton.

--
[ANS thanks Martha, AMSAT Manager, for the above information]
/EX

SB SAT @ AMSAT $ANS-109.3
HAMSAT

AMSAT News Service Bulletin 109.3
From AMSAT HQ SILVER SPRING, MD.
April 19, 2009
To All RADIO AMATEURS
BID: $ANS-109.3

Hi All
Hamsat 4th Birthday is coming up next month, 5 May 2009 and
Hamsat has been the most popular Amateur Sat for beginners
and veterans all over the world.

Hamsat is very healthy and should serve the ham
community for many more years.

Amsat India is pleased to announce that we are conducting
a Workshop to coincide with the 4 th anniversary celebrations
of the Hamsat.
(Note this is an advance infomation, complete programme
schedule is frozen and will be announced shortly)

Date 10 May 2009
Starts at 8 AM with registration and breakfast Morning
sessions include various topics Lunch Afternoon session
Tea & close by 4 pm

Venue : Little Lilly English School, Vidyaranyapura,
Bamgalore Delegate fee Rs 100/-

Detailed programme schedule etc will be announced
shortly on these email groups, local nets etc.
You may also check our web page www.amsatindia.org
email : info@amsatindia.org

We request all hams and wouldbe hams interested in
Amateur Satellite activity to kindly participate
and make the event a grand success.
Looking forward to your participation.
Best 73
Pop
VU2POP
Secy Amsat India

[ANS Thanks Pop, VU2POP, for the above info]
/EX

SB SAT @ AMSAT $ANS-109.4
SumbandilaSat: From Sub To Space

AMSAT News Service Bulletin 109.4
From AMSAT HQ SILVER SPRING, MD.
April 19, 2009
To All RADIO AMATEURS
BID: $ANS-109.4

A Sat News Daily story dated April 12, 2009, says
SumbandilaSat to launch in June from a sub.

SumbandilaSat: From Sub To Space
http://www.satnews.com/cgi-bin/story.cgi?number=195613620

SatNewsDaily were quoting from a South African
Business Report story -

Russian sub to launch second satellite
http://www.busrep.co.za/index.php?fSectionId=552&fArticleId=4930464

The South African Business Report website last
year carried a story on the use of Soyuz launcher
at Baikonur.

http://www.busrep.co.za/index.php?fSectionId=552&fArticleId=4596130

The Southern Africa AMSAT website is still quoting
Baikonur http://www.amsatsa.org.za/

[ANS Thanks, Trevor, M5AKA, for the above info]

/EX

SB SAT @ AMSAT $ANS-109.5
Satellite Shorts
AMSAT News Service Bun 109.5
From AMSAT HQ SILVER SPRING, MD.
April 19, 2009
To All RADIO AMATEURS
BID: $ANS-109.5

Good DX via AO-7

This week AO-7 continued to surprise and delight amateur radio satellite operators with opportunities for good DX. On April 12 Tim, N3TL reported, "At 21:33 UTC today G1WPR answered my "CQ DX" on AO-7 Mode B. I was sending CW with the straight key I picked up for Straight Key Night on AO-51, and Terry called me in SSB so we completed a cross-mode QSO of more than a minute with a few exchanges. I am thrilled!"

Tim also logged more trans-Atlantic AO-7 QSOs on April 16, "PH7PCF in the Netherlands answered my CW "CQ DX" with a hello in SSB. Then, a couple of minutes later, F2IL returned my CW in some CW from France. What a hoot!"

The equipment at N3TL consists of a Yaesu FT-857D for TX and a Yaesu FT-817ND for RX (both used radios). He uses a Diamond MX-72H duplexer to connect them to a dual-band Elk log periodic, which is hand-held, manually tracking the satellites. Computer doppler control was done with Simon's HRD Satellite Tracker. Of the CW operation Tim described his setup, "I have the "CQ DX" call set up in a memory buffer on my FT-857D. But when somebody responds, the straight key takes over."

Turning 35 years old on November 15, 2009 AO-7 still carries lots of amateur satellite traffic. Joe, K3SZH says Igor UA9CS Igor has now logged over 6000 QSOs via the bird. Also, this month Mike, KC9ELU has reached his 1000th QSO via AO-7.

[ANS thanks Tim, N3TL and Joe, K3SZH for the above information]

/EX

W0YPT Silent Key

AMSAT received the sad news that Telmer G. Olson, W0YPT became a silent key at age 91 this week. Telmer had worked the satellites from the earliest OSCARs to the modern satellites. Jerry, W0SAT

remembered, "He elmered me and helped me get on the satellites in 1996. I knew him as a great friend that I called on for advice all the time. I used to visit him at his QTH and went to hamfests with him too. I and all the people who ever had contact with will always remember the many QSO,s and contacts we had with him."

ANS thanks Jerry, WOSAT for the above information]

/EX

SB SAT @ AMSAT $ANS-109.6
Balloon Launch-Assist in Tracking

AMSAT News Service Bulletin 109.6
From AMSAT HQ SILVER SPRING, MD.
April 19, 2009
To All RADIO AMATEURS
BID: $ANS-109.6

The NS3 group of Cornell University engineering graduate students will launch PBH-9 (Project Blue Horizon) from Lockheed Martin in Owego NY on Sunday evening, 19Apr09, at approximately 21:00EDT (Monday, 20Apr09, 01:00UT) This ARHAB flight (Amateur Radio High Altitude Ballooning) will ascend and then float for up to 50-hours while drifting to the east.

The payload will include a KC2TUA-8 144.390 APRS beacon (track via (http://findu.com/cgi-bin/find.cgi?call=KC2TUA-8) and HF CW position report and telemetry downlinks on 7.104MHz and 10.148MHz. The NS3 PBH-9 team requests distant ground stations receive and report HF telemetry via N2XE@arrl.net including reception UT date and time.

Distant receiving stations are welcome to also submit HF reception reports to W0RPK@amsat.org for the ARHAB <50MHz telemetry reception record,
see http://showcase.netins.net/web/wallio/ARHABrecords.htm.

Additional PBH-9 information including HF telemetry transmit schedule and format is available via
http://showcase.netins.net/web/wallio/ARHABlaunchannouncements.htm.
Flight updates are available from the NS3 PBH-9 team
via http://twitter.com/pbh3.

[ANS thanks Ralph, W0RPK, for the above information]

/EX

SB SAT @ AMSAT $ANS-109.7
ARISS Schedule

AMSAT News Service Bulletin 109.7
From AMSAT HQ SILVER SPRING, MD.
April 13, 2009

To All RADIO AMATEURS
BID: $ANS-109.7

1. Upcoming School Contacts

Students from Ulvila Upper Secondary School in Ulvila, Satakunta, Finland have been preparing for an Amateur Radio on the International Space Station (ARISS) contact. It was completed on Friday, April 17 at 07:40 UTC. They have studied physics and astronomy and have researched the ISS. They have written essays and created posters on related subject matter. Students have also learned about amateur radio. Newspaper, radio and television coverage is anticipated.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled for St. Edward School in Ashland, Ohio, U.S.A. on Monday, April 20 at 16:36 UTC. The ARISS contact has been integrated into the science curriculum which covers topics on satellite images, global positioning of satellites, telescopes, and radio waves. Students read science related books and poems, conducted informational internet searches, wrote stories and informational articles, interviewed amateur radio operators, and studied and applied science and math objectives. Media coverage is expected.

2. Japanese Contact to be Rescheduled

An Amateur Radio on the International Space Station (ARISS) contact was scheduled for Thursday, April 9 between Kawanishi Seiwadai Community Center in Hyogo, Japan and Koichi Wakata, KC5ZTA onboard the ISS. Due to technical difficulties, the contact did not take place. The contact will be rescheduled in the near future.

3. Parkside Contact Video

On Monday, March 30, students from Parkside Community College in Cambridge, U.K. took part in an Amateur Radio on the International Space Station (ARISS) contact with Spaceflight Participant Charles Simonyi, KE7KDP/HA5SIK. Video of the contact is now available.
See: http://www.it-sparkles.co.uk/ARISS/Parkside.aspx

4. Article Posted on ARISS - Kalori Contact

On Wednesday, April 1, Kalori Catholic School students in Wallaroo, Australia experienced an Amateur Radio on the International Space Station (ARISS) contact with Mike Fincke, KE5AIT. The Yorke Peninsula Country Times published an article covering the event. See:
http://www.ypct.com.au/index.php?option=com_content&task=view&id=4840&Itemid=66

5. ARRL Article on CLC Contact

The American Radio Relay League (ARRL) ran a story about an Amateur Radio on the International Space Station (ARISS) contact that took place in October 2008 between the Indianapolis Challenger Learning Center (CLC) and Spaceflight Participant Richard Garriott, W5KWQ. The article, "Hams Mentor Challenger Center Students for Garriott Contact," may be found here: http://www.arrl.org/news/features/2009/04/08/10758/?nc=1

The ARRL Web site has 100,000 regular readers.

6. ARISS News on Amateur Radio Newsline

On April 3, the Amateur Radio Newsline Report 1652 included an Amateur Radio on the International Space Station (ARISS) news item. The story, "Ham Radio in Space: KE7KDP, KE5AIT and RA3DT Return from the ISS," summarizes the ARISS accomplishments of Charles Simonyi and Mike Fincke during their missions. To view the story, go to: ftp://ftp.arnewsline.org/quincy/News/news.txt

7. Astronaut Training Status

The Amateur Radio on the International Space Station (ARISS) team provided another training session to Mike Fossum on Thursday, April 9 to prepare him for his amateur radio license exam.

8. ARISS Report to WIA

The Wireless Institute of Australia (WIA) will hold its Annual General Meeting (AGM) over the May 1-3 weekend. Amateur Radio on the International Space Station (ARISS) mentor and telebridge station operator Tony Hutchison, V K5ZAI will give his ARISS 2008-09 report. It has been posted on the ARISS Web site under "Latest News." See: http://www.rac.ca/ariss/oindex.htm

9. ARISS-Related Article in NASA HQ News Briefs

NASA Headquarters News Service cited an op-ed found in the Times of London. The item, written by Lucy and Stephen Hawking, mentions Richard Garriott's mission and how he inspired youth through his numerous radio contacts while onboard the ISS.
See:
http://entertainment.timesonline.co.uk/tol/arts_and_entertainment/books/article6027988.ece

10. Simonyi PowerPoint Presentation

An Amateur Radio on the International Space Station (ARISS) volunteer prepared a PowerPoint presentation on

Spaceflight Participant Charles Simonyi's mission and used
this during the Milwee Middle School (Longwood, Florida)
contact on April 1. To view the slideshow, go to
www.mydrive.ch/en. Enter username, "plethra2" and password,
"aa4kn_1". Select the "ARISS SLIDE SHOW" folder and
download the available files.

11. SuitSat-2 Meeting Held

A SuitSat-2 meeting was held in Phoenix, Arizona on April 3 - 5.
The team primarily worked on software, but there was also
some final coordination on the cabling and hardware.
The software team was able to run some integration tests
and achieved the first radio frequency (RF) output of the
system. During the testing, the team demonstrated the
continuous wave (CW) and voice message transmissions. Work
continues on the solar panel mounting. Amateur Radio on
the International Space Station (ARISS) plans to have
SuitSat-2 hardware ready for delivery by September.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

73,
This week's ANS Editor,
Dee Interdonato, NB2F

38. WSR-111 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-04-22 02:11:25 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001d01c9c2ef$9ace6680$d06b3380$@net>
Source record: 737
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-111.S1
WSR 111 Part 1 04/21/2009

AMSAT NEWS SERVICE BULLETIN 111.S1
FROM AMSAT HQ SILVER SPRING, MD, April 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-111.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.880 Mhz FM
Downlink: 2401.200 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04212009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS

Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[04062009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-111.S2
WSR 111 Part 2 04/21/2009

AMSAT NEWS SERVICE BULLETIN 111.S2
FROM AMSAT HQ SILVER SPRING, MD, April 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-111.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498

Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL

=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====

CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.880 Mhz FM
Downlink: 2401.200 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04212009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60

[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[02212009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[040602009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-111.S3
WSR 111 Part 3 04/21/2009

AMSAT NEWS SERVICE BULLETIN 111.S3
FROM AMSAT HQ SILVER SPRING, MD, April 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-111.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: ?

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[02212009]

=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====

NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?

Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational?

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM

1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[03232009]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-111.S4
WSR 111 Part 4 04/11/2009

AMSAT NEWS SERVICE BULLETIN 111.S4
FROM AMSAT HQ SILVER SPRING, MD, April 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-111.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]

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/EX

SB SAT @ AMSAT W8ISS ANS-111.S5
WSR 111 Part 5 04/21/2009

AMSAT NEWS SERVICE BULLETIN 111.S5
FROM AMSAT HQ SILVER SPRING, MD, April 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-111.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

39. ANS-116 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-04-26 01:38:05 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001801c9c60f$9e214780$da63d680$@net>
Source record: 738
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-116

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Two Weeks and Counting for AMSAT at Dayton
* Maurice-Andrï¿½ Vigneault, VA2MA Appointed as Canadian AMSAT Delegate to the
ARISS International Working Group
* Satellite News From India
* APRS Satellite Fleet Expansion Planned
* UT1FG/MM Wet Grids DXpedition in Range of Americas Now
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-116.01
Two Weeks and Counting for AMSAT at Dayton

AMSAT News Service Bulletin 116.01
>From AMSAT HQ SILVER SPRING, MD.
April 26, 2009
To All RADIO AMATEURS
BID: $ANS-116.01

A little over two weeks remain before AMSAT opens its 40 Years of Amateur Radio in Space display at the Dayton Hamvention held on May 15-17.

AMSAT's activities begin on Thursday, May 14 with setting up the booth display. The traditional Thursday Night get-together will be held in a new location, the 'Tickets Pub' in suburban Fairborn, Ohio.

The AMSAT Forum will be held on Saturday, May 16 in Meeting Room 5 from 11:15 to 13:30. The schedule includes:

+ AMSAT VP-Member & User Services and SuitSat-2 Systems Engineer Gould Smith, WA4SXM will give a talk on "SuitSat-2 Status Report."

Members of the SuitSat-2 team will have a complete operational SuitSat

prototype with an experiment at the AMSAT Booth.

+ AMSAT VP-Human Space Flight Will Marchant, KC6ROL, will give a
status on the ARISS program.

+ ARISS Hardware Manager Lou McFadin, W5DID, will give a talk on
"Antennas for the Columbus Module."

+ Richard Garriott, W5WKQ, will speak at the AMSAT Forum about his
ARISS activities while onboard the ISS. He will talk about his
training, flight, and ham radio operations during the AMSAT Banquet.

Richard will also be at the AMSAT booth to meet members on Friday and
Saturday. Specific times will be announced soon.

The outdoor satellite demonstration area will be managed by Drew, KO4MA
and Keith, W5IU. It will feature two types of operational stations.
One will be the basic handheld station and the second will feature full
computer control.

Since this is the 40th Anniversary of AMSAT, we have a great new tee
shirt design by Steve Kenwolf to celebrate the event. Forty years of
AMSAT memorabilia will be on display. As always there will be new pub-
lications, frequency chart, LVB Trackers and premiums for membership
renewal.

Check out all the details, including making your AMSAT Banquet reser-
vations on the web pages:
http://www.amsat.org/amsat-new/hamvention/2009/Dayton.php

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-116.02
Maurice-Andrï¿½ Vigneault, VA2MA Appointed as Canadian AMSAT Delegate to
the
ARISS International Working Group

AMSAT News Service Bulletin 116.02
>From AMSAT HQ SILVER SPRING, MD.
April 26, 2009
To All RADIO AMATEURS
BID: $ANS-116.02

AMSAT President Barry Baines, WD4ASW has appointed Maurice-Andrï¿½
Vignault, VA2MA/VE3VIG, as the Canadian AMSAT delegate to the
ARISS International Working Group. He replaces Stefan Wagener,
VE4NSA who resigned due to personal reasons.

Maurice-Andrï¿½ was first licensed in 1990. He served 38 years in
the Canadian Air Force, Communications and Electronics Branch.
He is an active amateur radio operator with satellite experience

dating to 2001. He has been conducting an ongoing satellite communications course starting in 2006. He conducted an ARISS School contact in January 2007. He is active in demonstrating satellite communications at the Canada Science and Technology Museum.

He is a member of the Radio Amateurs of Canada and AMSAT. As a member of the AMSAT Field Operations Team, he serves as an Area Coordinator for Ottawa, representing AMSAT in his local community and serving as a mentor to hams wishing to learn about the satellite communications.

Barry noted in an e-mail to ARISS International Working Group Chairman Gaston Bertels, ON4WF, "AMSAT is proud to be able to send such a qualified member to serve with the ARISS Working Group. AMSAT looks forward to many years of continued cooperative activities with ARISS in human space flight."

The ARISS International Working Group includes two delegates appointed by AMSAT. Previously, AMSAT VP-Human Space Flight Will Marchant, KC6ROL

was appointed the US AMSAT delegate to the ARISS International Working Group replacing Frank Bauer, KA3HDO. Both Maurice-Andrï¿½ Vignault and Will Marchant will be attending the upcoming ARISS International Working

Group meeting taking place in June 2009 at ESA/ESTEC in the Netherlands.

[ANS thanks AMSAT President Barry, WD4ASW for the above information]

/EX

SB SAT @ AMSAT $ANS-116.03
Satellite News From India

AMSAT News Service Bulletin 116.03
>From AMSAT HQ SILVER SPRING, MD.
April 26, 2009
To All RADIO AMATEURS
BID: $ANS-116.03

This week India's ISRO Space Agency successfully launched RISAT-2 and ANUSAT from the Satish Dhawan Space Centre SHAR in Sriharikota. RISAT-2 is a Radar Imaging Satellite with the capability to take images of the earth during day and night as well as cloudy conditions to enhance capability for earth observation, especially during floods, cyclones, landslides and in disaster management.

ANUSAT is the first experimental communication satellite built by an Indian University under the over all guidance of ISRO and will demonstrate the technologies related to message store and forward operations. ANUSAT specifications have mentioned amateur radio uplink and downlink frequencies will be used but no user information has been released at this time. The satellite is designed for digital store-and-forward operation.

ANUSAT has a telemetry beacon on 137.400 MHz. David, VK5DG reported, "I just heard AnuSat go over with a loud carrier on 137.400 MHz but no modulation detected. I am using keps for space track object 34808." Additionally, Rodney, KC0ZHF reported, "I also monitored the frequency on orbits 48 and 49 of the satellite and heard a very strong carrier. I scanned UHF frequencies but did not hear any additional downlinks."

In other Amateur Radio news from AMSAT-India Nitin, VU3TYG says the April 2009 newsletter is available at:
http://www.amsatindia.org/Newsletter

AMSAT-India Secretary, Pop, VU2POP says, "We have received many applications for the VO-52 operating award from several different countries. Certificates will be posted by end of May 2009." The certificate is available to Amateur Radio operators who establish two way contact through VO-52 between January 26, 2009 until May 10, 2009.

If you find yourself in India remember to attend the AMSAT-India Workshop on 10 May 09 at the Little Lilly English School, Vidyaranyapura, Bangalore.

[ANS thanks Space Daily Express, Pop VU2POP, and Nitin VU3TYG for the above information]

/EX

SB SAT @ AMSAT $ANS-116.04
APRS Satellite Fleet Expansion Planned

AMSAT News Service Bulletin 116.04
>From AMSAT HQ SILVER SPRING, MD.
April 26, 2009
To All RADIO AMATEURS
BID: $ANS-116.04

Writing from the US Naval Academy Satellite Development Lab this week Bob, WB4APR reported on new satellites with the same APRS packet relay as PCSAT and the ISS that are in the works.

Bob said their design will use the new Byonics all-on-a-board Packet TNC/Radio/Telemetry system. This makes it possible to build a packet satellite out of a single 3.4" square board and 5 NiCd batteries and that is all you need for a tiny APRS satellite.

Bob said, "We are ordering a bunch of them on the APRS Space Channel of 145.825 MHz and hope to encourage other schools and universities to consider including one of these packet transponders in their missions. If we can get up to a dozen of these in space, we will have almost global coverage 24 hours a day from anywhere on the planet!"

These systems are still under development. No launch dates have been announced at this time.

[ANS thanks Bob, WB4APR for the above information]

/EX

SB SAT @ AMSAT $ANS-116.05
UT1FG/MM Wet Grids DXpedition in Range of Americas Now

AMSAT News Service Bulletin 116.05
>From AMSAT HQ SILVER SPRING, MD.
April 26, 2009
To All RADIO AMATEURS
BID: $ANS-116.05

Captain Yuri of the MV Bluebill is now operating as UT1FG/MM from his ship through June, 2009. His sea voyage will take him from Northern Europe, across the Atlantic Ocean, the Gulf of Mexico up to the Mississippi River, then southward toward Mexico and Central America.

Yuri says his current plans are to operate on AO-27, AO-51, SO-50, VO-52, FO-29, and AO-7. Over the past two years he already has logged many North American stations from his ship operations in the Atlantic and Pacific Oceans. QSL via home call UT1FG.

This week Angelo, N5UXT reported working UT1FG/MM in GM24 via FO29.

[ANS thanks Yuri, UT1FG/MM and Angelo, N5UXT for the above information]

/EX

SB SAT @ AMSAT $ANS-116.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 116.06
>From AMSAT HQ SILVER SPRING, MD.
April 26, 2009
To All RADIO AMATEURS
BID: $ANS-116.06

+ Check out William's, PE1RAH design for an ultra-small linear satellite Mode-UV transponder with 23dBm PEP output on 2 meters. He made a video which can be seen at: http://www.youtube.com/watch?v=5j60SJroodg

+ The PS8DX Teresina DX Group is on the air this week from Brazil's Canary Island GI97bf on AO-7, FO-29, AO-51, VO-52, SO-50, and ISS (if available).

+ Remember the Hudson Valley Satcom group Net 8 PM EST on Thursday evenings on Echolink node n2eyh-l.

+ Insight as to future amateur satellites in planning can be gleaned from the IARU coordination data available at: http://www.amsat.org.uk/iaru/

+ The ISS will be on the air with an ARISS contact with the National Air

and Space Museum in Washington, D.C. on Space Day, May 2 at 15:23 UTC.

This will be a telebridge contact via station W6SRJ in California. Stu-
dents will be pre-recruited, but Space Day participants will also be
invited to ask questions. Visitors will participate in hands-on activ-
ities, meet astronauts and learn about space from experts and museum
displays.

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office. With that recall
the incident of the bicycle that could not stand up because it was two
tired.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

40. WSR-117 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-04-29 02:45:26 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c9c874$77286f70$65794e50$@net>
Source record: 739
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-117.S1
WSR 117 Part 1 04/27/2009

AMSAT NEWS SERVICE BULLETIN 117.S1
FROM AMSAT HQ SILVER SPRING, MD, April 27, 2009
TO ALL RADIO AMATEURS
BID: $ANS-117.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS

Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[04062009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-117.S2
WSR 117 Part 2 04/27/2009

AMSAT NEWS SERVICE BULLETIN 117.S2
FROM AMSAT HQ SILVER SPRING, MD, April 27, 2009
TO ALL RADIO AMATEURS
BID: $ANS-117.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498

Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL

=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====

CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[040602009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-117.S3
WSR 117 Part 3 04/27/2009

AMSAT NEWS SERVICE BULLETIN 117.S3
FROM AMSAT HQ SILVER SPRING, MD, April 27, 2009
TO ALL RADIO AMATEURS
BID: $ANS-117.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305

2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====

OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-117.S4
WSR 117 Part 4 04/27/2009

AMSAT NEWS SERVICE BULLETIN 117.S4
FROM AMSAT HQ SILVER SPRING, MD, April 27, 2009
TO ALL RADIO AMATEURS
BID: $ANS-117.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]

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SB SAT @ AMSAT W8ISS ANS-117.S5
WSR 117 Part 5 04/27/2009

AMSAT NEWS SERVICE BULLETIN 117.S5
FROM AMSAT HQ SILVER SPRING, MD, April 27, 2009
TO ALL RADIO AMATEURS
BID: $ANS-117.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

41. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.space
Date: 2009-05-01 06:00:03 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1241157601@panix.com>
Source record: 740
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

42. ANS-132 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-05-03 13:58:42 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000701c9cbf7$3ba15800$b2e40800$@net>
Source record: 741
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-132

ANS is a free, weekly, news and information service of AMSAT North America,
The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AO-51 Scehdule for May 2009
* 2009 AMSAT Field Day Rules
* AMSAT DXpedition Loaner Gear Available
* Opening on AO-51 Operations Committee
* AMSAT Awards
* ARISS Status - 27 April 2009

SB SAT @ AMSAT $ANS-132.01
AO-51 Schedule for May 2009

AMSAT News Service Bulletin 132.01
From AMSAT HQ SILVER SPRING, MD.
May 3, 2009
To All RADIO AMATEURS
BID: $ANS-132.01

Due to rapidly increasing eclipse lengths throughout May, we need to keep
the satellite in "normal" mode for Whole Orbit Data (WOD) collection via the
BBS. Power output will steadily be decreased throughout the month.

April 27 - May 31

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS and Telemetry
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

73, Drew KO4MA
AMSAT-NA VP Operations

[ANS thanks Drew, KO4MA, for the above information]

/EX

SB SAT @ AMSAT $ANS-132.02
2009 AMSAT Field Day Rules

AMSAT News Service Bulletin 132.02
From AMSAT HQ SILVER SPRING, MD.
May 3, 2009
To All RADIO AMATEURS
BID: $ANS-132.02

The AMSAT Field Day 2009 event is open to all Amateur Radio operators. Amateurs
are to use the exchange as specified in ARRL rules for Field Day. The AMSAT
competition is to encourage the use of all amateur satellites, both analog
and
digital. Note that no points will be credited for any contacts beyond the
ONE
allowed via each single-channel FM satellite. Operators are encouraged not
to
make any extra contacts via theses satellites (Ex: AO-27 & SO-50).

CW contacts and digital contacts are worth three points as outlined
below.

1. Analog Transponders
ARRL rules apply, except:
- Each phone, CW, and digital segment ON EACH SATELLITE TRANSPONDER is
considered to be a separate band.
- CW and digital (RTTY, PSK-31, etc.) contacts count THREE points
each.
- Stations are limited to one (1) completed QSO on any single channel FM
satellite. If AO-51 has the V/U and L/S modes turned on, one contact each
is allowed. If the PBBS is on - see Pacsats below, ISS (1 phone and 1
digital), Contacts with the ISS crew will
count for one contact if they are
active. PCSat (I, II, etc.) (1 digital),
- The use of more than one transmitter at the same time on a single

satellite transponder is prohibited.

2. Digital Transponders
For the Pacsats (GO-32, AO-51) or ï¿½Store and
Forwardï¿½ hamsats, each satellite is
considered a separate band. Do not post "CQ" messages. Simply upload ONE
greeting message to each satellite and download as many greeting
messages as
possible from each satellite. The subject of the uploaded file should be
posted
as Field Day Greetings, addressed to ALL. The purpose of this portion of
the
competition is to demonstrate digital satellite communications to other
Field
Day participants and observers. Do not reply to the Field Day Greetings
addressed to ALL.

The following uploads and downloads count as three-point digital
contacts.
(a) Upload of a satellite Field Day Greetings file (one per satellite).
(b) Download of Satellite Field Day Greetings files posted by other
stations.
Downloads of non- Field Day files or messages not
addressed to ALL are not to be
counted for the event. Save DIR listings and message files for later
"proof
of
contact."

Please note AMSAT uploaded messages do not count for QSO points under
the
ARRL
rules.

Satellite digipeat QSO's and APRS short-message contacts are worth three
points
each, but must be complete verified two-way exchanges. Remember, only
one
digipeat contact is allowed for the ISS and other satellites in this
mode.
The use of terrestrial gateway stations or internet gateways (i.e.
EchoLink,
IRLP, etc.) to uplink/downlink is not allowed.

3. Operating Class
Stations operating portable and using emergency power (as per ARRL Field
Day
rules) are in a separate operating class from those at home connected to
commercial power. On the report form simply check off Emergency or
Commercial
for the Power Source and be sure to specify your ARRL operating class
(2A,

1C,
etc.).

AND FINALLY...
The Satellite Summary Sheet should be used for
submission of the AMSAT Field Day
competition and be received by KK5DO (email or postal mail) by 11:59
P.M.
CDT,
Monday, July 13, 2009. The preferred method for submitting your log is
via
e-mail to kk5do@amsat.org or kk5do@arrl.net.

You may also use the postal service but give plenty of time for your
results
to
arrive by the submission date. Add photographs or other interesting
information
so that can be used an article for the Journal.

You will receive an email back (within one or two days) from me when I
receive
your email submission. If you do not receive a
confirmation message, then I have
not received your submission. Try sending it again or send it to my
other
email
address.

If mailing your submission, the address is:
Bruce Paige, KK5DO
Director of Awards and Contests
PO Box 310
Alief, TX 77411-0310.

Certificates will be awarded to the first-place
emergency power/portable station
at the AMSAT General Meeting and Space Symposium in October, 2009.
Certificates
will also be awarded to the second and third place portable/emergency
operation
in addition to the first-place home station
running on emergency power. Stations
submitting high, award-winning scores will be requested to send in dupe
sheets
for analog contacts and message listings for digital downloads.

Additional information and a copy of the submission form is available at
http://www.amsatnet.com/2009fd.pdf

[ANS thanks Bruce, KK5DO, for the above information]

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SB SAT @ AMSAT $ANS-132.03
AMSAT DXpedition Loaner Gear Available

AMSAT News Service Bulletin 132.03
From AMSAT HQ SILVER SPRING, MD.
May 3, 2009
To All RADIO AMATEURS
BID: $ANS-132.03

AMSAT DXpedition loaner gear is available to members for use activating a
DXCC
entity or rare grids such as on a cruise. Currently AMSAT has two Arrow antennas, and a D7 handheld available for loan. Please contact Drew at ko4ma@amsat.org for more information.

[ANS thanks Drew, KO4MA, for the above information]

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SB SAT @ AMSAT $ANS-132.04
Opening on AO-51 Operations Committee

AMSAT News Service Bulletin 132.04
From AMSAT HQ SILVER SPRING, MD.
May 3, 2009
To All RADIO AMATEURS
BID: $ANS-132.04

We currently have an opening on the AO-51 Operations Committee for an enthusiastic individual interested in helping with scheduling, answering questions about operations, and supporting AO-51 in general. Interested parties are required to be an AMSAT member in good standing, have regular
access to email, and be experienced in many of the modes in which AO-51 operates in order to be considered. This is an excellent opportunity to get
involved with AMSAT for those new to volunteering for the organization.

I don't expect to announce the new member until after Dayton. Also, please
be patient while waiting for a response. Email the Operations Committee at
ao51-modes@amsat.org, directly to me at ko4ma@amsat.org, or see me in person
at Dayton.

73, Drew KO4MA
AMSAT-NA VP Operations

[ANS thanks Drew, KO4MA, for the above information]

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SB SAT @ AMSAT $ANS-132.05
AMSAT Awards

AMSAT News Service Bulletin 132.05
From AMSAT HQ SILVER SPRING, MD.
May 3, 2009
To All RADIO AMATEURS
BID: $ANS-132.05

There continues to be a very high interest in AMSAT Awards which means a lot of new operators on the satellites.

We would like to welcome the following to the satellite community. They have made their first satellite contact and are now members of the AMSAT Satellite Communicators Club.

Benigno Gomez, XE2YBG
Chris Lemon, KB9CL
Evangelos Kafetzopoulos SV1EEK
James Cutter, W7OJS
Jim McCullough, KI4TWA
Steve Niles, N5EN

The following have earned the AMSAT Satellite Communications Achievement Award.

L. Val Hanney, KN7D #486
Benigno Gomez, XE2YBM #487
Steve Niles, N5EN #488
(We are approaching number 500 on this award)

To see all the awards visit http://www.amsat.org or http://www.amsatnet.com

Bruce Paige, KK5DO
AMSAT Director Contests and Awards

[ANS thanks Bruce, KK5DO, for the above information]

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SB SAT @ AMSAT $ANS-132.06
ARISS Status - 27 April 2009

AMSAT News Service Bulletin 132.06
From AMSAT HQ SILVER SPRING, MD.
May 3, 2009
To All RADIO AMATEURS
BID: $ANS-132.06

1. Ashland Contact Successful

On Monday, April 20, St. Edward School in Ashland, Ohio experienced an Amateur
Radio on the International Space Station (ARISS) contact. Koichi Wakata, KC5ZTA

answered 13 questions posed to him by 12 children as approximately 170 students
and teachers looked on. The audio was fed into the EchoLink AMSAT and JK1ZRW
servers and received four connections from the U.S., England and Brazil.
Television channel 39 and the Times-Gazette both covered the event. The
newspaper article may be found here:
http://www.times-gazette.com/news/article/4570900

2. Astronaut Training Status

Astronaut Mike Fossum took and passed his amateur radio license exam on
Wednesday, April 15. His new callsign is KF5AQG.

3. CQ Magazine Article on ARISS Contact

Bob Hopkins, WB2UDC wrote an article on the Amateur Radio on the International
Space Station (ARISS) contact between youth attending the Berkeley Heights
Recreation Summer Playground in New Jersey and Expedition 17ï¿½s Greg Chamitoff,
KD5PKZ. NPARC (New Providence Amateur Radio Club) assisted with the contact
which took place on August 13, 2008. The story, ï¿½Believe in Your Dreams -
Anatomy of an ARISS Contact,ï¿½ was published in the April 2009 issue of CQ
Magazine.

4. Marcelino Canino Canino Contact Video

Marcelino Canino Canino Middle School in Dorado, Puerto Rico, a 2005 NASA
Explorer School, experienced a successful Amateur Radio on the International
Space Station (ARISS) contact on March 31. The video of students speaking
with
Charles Simonyi, KE7KDP/HA5SIK is now available on YouTube. See:
http://www.youtube.com/watch?v=toOAAxEhKRA

5. Article on Simonyi Contacts

Amateur Radio on the International Space Station (ARISS) member Maurice-Andrï¿½
Vigneault, VE3VIG wrote a short story for the Ottawa Valley Mobile Radio Club
(OVMRC) news bulletin, The Rambler and Radio Amateurs of Canada (RAC) magazine,
TCA. The article is about contacts made between the Canada Science and
Technology Museum's VE3JW Amateur Radio Exhibit and Spaceflight Participant

Charles Simonyi, KE7KDP/HA5SIK during his recent ISS flight. ï¿½Space
Contactï¿½
may be found on page 7 of the April 2009 issue of The Rambler. See:
http://www.pdfdownload.org/pdf2html/pdf2html.php?url=http%3A%2F%2Fwww.o
vmrc.
on.
ca%2FRambler%2FRam2009-04.pdf&images=yes

[ANS thanks Carol, KB3LKI, for the above information]

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In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT
Project
Funds, will be eligible to receive additional benefits. Application
forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

43. Radio Meteor Obs. Bull. April 2009 Lyrids

Newsgroup: rec.radio.amateur.space
Date: 2009-05-06 19:34:30 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <0hp305dq7qj6od1mmadt19vmd134q3la2b@4ax.com>
Source record: 742
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 189 of April 2009 (78 K) is available now as

http://www.rmob.org/rmobtext/rmob0904.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

44. Space junk re-entry over Northam Western Australia

Newsgroup: rec.radio.amateur.space
Date: 2009-05-07 12:02:58 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <_MydnaL4w4NoUJ_XnZ2dnUVZ8qCdnZ2d@westnet.com.au>
Source record: 743

Noticed a nice bright re-entry over Northam Western Australia at 7:40 local time 07/05/2009, over head slightly to the North heading from east to the west as it broke up.
Looked relatively large. Has any body any clues to what it may have been?

--
Peter

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

45. WSR-126 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-05-08 01:53:09 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001601c9cf7f$b0fce610$12f6b230$@net>
Source record: 744
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-126.S1
WSR 126 Part 1 05/06/2009

AMSAT NEWS SERVICE BULLETIN 126.S1
FROM AMSAT HQ SILVER SPRING, MD, May 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-126.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS

Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[04062009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-126.S2
WSR 126 Part 2 05/06/2009

AMSAT NEWS SERVICE BULLETIN 126.S2
FROM AMSAT HQ SILVER SPRING, MD, May 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-126.S2

SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498

Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL

=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====

CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[040602009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-126.S3
WSR 126 Part 3 05/06/2009

AMSAT NEWS SERVICE BULLETIN 126.S3
FROM AMSAT HQ SILVER SPRING, MD, May 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-126.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305

2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====

OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-126.S4
WSR 126 Part 4 05/06/2009

AMSAT NEWS SERVICE BULLETIN 126.S4
FROM AMSAT HQ SILVER SPRING, MD, May 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-126.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[02212009]

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/EX

SB SAT @ AMSAT W8ISS ANS-126.S5
WSR 126 Part 5 05/06/2009

AMSAT NEWS SERVICE BULLETIN 126.S5
FROM AMSAT HQ SILVER SPRING, MD, May 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-126.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

46. WSR-132 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-05-13 16:22:48 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002b01c9d3e7$00b99c00$022cd400$@net>
Source record: 745
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-132.S1
WSR 132 Part 1 05/12/2009

AMSAT NEWS SERVICE BULLETIN 132.S1
FROM AMSAT HQ SILVER SPRING, MD, May 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-132.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS

Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[04062009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-132.S2
WSR 132 Part 2 05/12/2009

AMSAT NEWS SERVICE BULLETIN 132.S2
FROM AMSAT HQ SILVER SPRING, MD, May 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-132.S2

ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol

Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====

NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791

Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[040602009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-132.S3
WSR 132 Part 3 05/12/2009

AMSAT NEWS SERVICE BULLETIN 132.S3
FROM AMSAT HQ SILVER SPRING, MD, May 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-132.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/

[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:

http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-132.S4
WSR 132 Part 4 05/12/2009

AMSAT NEWS SERVICE BULLETIN 132.S4
FROM AMSAT HQ SILVER SPRING, MD, May 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-132.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??

Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web page: http://www.amsat.org
[02212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-132.S5
WSR 132 Part 5 05/12/2009

AMSAT NEWS SERVICE BULLETIN 132.S5
FROM AMSAT HQ SILVER SPRING, MD, May 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-132.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)

* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

47. ANS-130 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-05-13 16:23:21 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002c01c9d3e7$1b685be0$523913a0$@net>
Source record: 746
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-130

ANS is a free, weekly, news and information service
of AMSAT North America, The Radio Amateur Satellite
Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share
an active interest in designing, building, launching
and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Activites at Dayton 2009
* AMSAT/TAPR Banquet Note
* Live Feed from Dayton
* ARISS SPACE DAY
* VK5ZAI Receives Award
* ARISS Schedule

SB SAT @ AMSAT $ANS-130.1
AMSAT Activites at Dayton 2009

From AMSAT HQ SILVER SPRING, MD.
May 10, 2009
To All RADIO AMATEURS
BID: $ANS-130.1

AMSAT Activities at Dayton

Thursday May 14th AMSAT Get-Together at Tickets Pub
and Eatery in Fairborn beginning at 18:30 Good
Greek and American food as well as conversation
with fellow AMSATers in a relaxed environment.
Directions on the AMSAT web site.

Friday May 15th
Satellite Demonstrations outside the Ball Arena
entrance

Celebrating AMSAT's 40th Anniversary with 40
years worth of amateur satellite memorabilia
and a special 40th Anniversary tee shirt and

golf shirt.

SuitSat-2 hardware demonstration

Richard Garriott visiting the AMSAT Booth 14:30 - 15:15

New publications and trinkets

LVB Tracker Box demonstration and boxes
offered

AMSAT/TAPR Banquet featuring Richard Garriott,
W5KWQ starting at 18:30

Saturday May 16th
AMSAT Forum 11:15 - 13:30

Satellite Demonstrations outside the Ball
Arena entrance

Celebrating AMSAT's 40th Anniversary with 40
years worth of amateur satellite memorabilia
and a special 40th Anniversary tee shirt and golf shirt.

SuitSat-2 hardware demonstration

Richard Garriott visting the AMSAT Booth
15:00 - 15:45

New publications and trinkets

LVB Tracker Box demonstration and boxes
offered

Sunday morning May 17th
Satellite Demonstrations outside the Ball
Arena entrance

Celebrating AMSAT's 40th Anniversary with
40 years worth of amateur satellite memorabilia
and a special 40th Anniversary tee shirt and golf shirt.

SuitSat-2 hardware demonstration

New publications and trinkets

LVB Tracker Box demonstration and boxes
offered

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-130.2
AMSAT/TAPR Banquet Note

AMSAT News Service Bulletin 130.2
From AMSAT HQ SILVER SPRING, MD.
May 10, 2009
To All RADIO AMATEURS
BID: $ANS-130.2

The Dayton AMSAT/TAPR banquet is now here.
Our Guest Speaker is Richard Garriott, W5KWQ.
Monday May 11th is the final day to order tickets for
the AMSAT/TAPR Banquet with Richard Garriott. Order
your tickets online in the AMSAT Store. You MUST be
pre- registered to attend. You cannot register at Dayton.

--
[ANS thanks Martha, AMSAT Manager, for the above information]
/EX

SB SAT @ AMSAT $ANS-130.3
Live feed from Dayton

AMSAT News Service Bulletin 130.3
From AMSAT HQ SILVER SPRING, MD.
May 10, 2009
To All RADIO AMATEURS
BID: $ANS-130.3

We will be broadcasting live streaming video
and audio of the Dayton 2009 Hamvention this
coming weekend. This is our 7th year to broadcast
hamfest events. We are seen in over 150 countires
and advertised to over 100,000 hams around the world.
Frank Bauer KA3HDO has helped us to get Richard
Garriott for an interview. Hams around the world
will be able to watch this and even send in questions.

The web site is http://w5kub.com and we actually
start broadcasting with our "helmet cam" Wednesday
morning May 13th at approx 1300 UTC and will be
broadcasting our entire 550 mile drive from
Memphis, TN to Dayton, OH.

The video web site not only has the live video but
also has a chat room where anyone can log in and
talk to other hams around the world or to us.
During our interview with Richard, if anyone
sends in a question we will try to ask it.
We can only get 15 minutes of his time as he
is extremely busy and this was scheduled even
after his schedule filled up.
Note: Special pre-arranged LIVE interview with Richard Garriot
4:00pm - 4:15pm Saturday.

And for those who can't go, you can attend "virtually"
and have a great chance to win ham radio prizes.

We have many great prizes. There is a link on the
left side of our website which tells of the prizes
and what days each will be given out.

Follow us every move for the five days (May 13 - May 17).
ARRS at the bottom of the page will show you our
progress as we drive, or maybe you will recognize
the road and landmarks.

[ANS Thanks Tom,W5KUB, for the above info]
/EX

SB SAT @ AMSAT $ANS-130.4
ARISS SPACE DAY

AMSAT News Service Bulletin 130.4
From AMSAT HQ SILVER SPRING, MD.
May 10, 2009
To All RADIO AMATEURS
BID: $ANS-130.4

ARISS and AMSAT at Space Day in Washington DC

On Saturday, May 2 ARISS and AMSAT operated from the Smithsonian's
National Air and Space Museum during Family Day and Space Day events.

The contact, telebridged through W6SRJ in Santa Rosa, went like clock-
work. Ten students and boy scouts at the National Air and Space Museum
asked 19 questions to astronaut Michael Barratt, KD5MIJ on board ISS
during the 9 minute contact opportunity. Audio from the contact was
available via the AMSAT conference on EchoLink and via the 9010
Discovery reflector on IRLP.

Also on-hand at the National Air and Space Museum for the contact was
Ricky Arnold II, KE5DAU. Ricky answered questions from the audience
prior to the contact, sent his greetings to Michael Barratt at the
beginning of the contact and stayed with the audience after the contact
to answer questions one-on-one and to allow time for individual photos.

The AMSAT/ARISS Booth was well attended with lots of youth and adults
stopping by. We had lot of material to handout from AMSAT, ARRL and
NASA. And we gave out the last of the 2009 Space Station Calendars!

Frank Bauer, KA3HDO, wrote from the event, "I want to thank all who
helped at the booth: Perry Klein, Dave Taylor, Bob Davis, Dick Daniels,
Janet Bauer, Bob Bruninga, Don Sylvain, and Bob McCown. While I do not
have the final statistics, there were probably about 20,000 people that
filtered through the museum during the day. A hearty tip of the hat to
the W6SRJ folks for making the contact look so easy. And a big thanks
to Wayne who was our contact moderator."

The National Air and Space Museum web page can be found at:
http://www.nasm.si.edu/events/eventDetail.cfm?eventID=1031

[ANS thanks Frank, KA3HDO for the above information]

/EX

SB SAT @ AMSAT $ANS-130.5
VK5ZAI Receives Award

AMSAT News Service Bulletin 130.5
From AMSAT HQ SILVER SPRING, MD.
May 10, 2009
To All RADIO AMATEURS
BID: $ANS-130.5
AMSAT Coordinator Tony Hutchison VK5ZAI receives Chris Jones Award

Australia's WIA President Michael Owen VK3KI presented the Chris Jones Award to AMSAT Area Coordinator Tony Hutchison VK5ZAI at the WIA's Annual General Meeting at the Gippsland Campus of Monash University, Churchill on 2nd May 2009.

The Chris Jones Award honours the memory of a man who was dedicated to the advancement of amateur radio and whose unfailing commitment and vision led to a new Wireless Institute of Australia and whose unfailing courtesy and genuine friendliness is fondly remembered by all who knew him.

Tony's significant contribution to amateur radio was due to his ARISS activities which featured eight schools in the region took part in ARISS contacts (3 from New Zealand and 5 from Australia).

Tony said, "Amateur Radio on International Space Station is a positive way of introducing our hobby of amateur radio to students, and others throughout the world by demonstrating how it's used to communicate with the crews on the International Space Station."

Tony's concluding remarks, "I would like to thank everyone for their congratulations on winning the prestigious WIA Chris Jones Award. I would also like to thank the ARISS team, especially Shane VK4KHZ, who backs me up in VK, and all other Amateurs that have assisted by working with schools to make these ARISS educational linkups possible, also a big thanks to my wife Jill, although not licensed, assists me with my ARISS commitments. Without everyones continual support this wouldn't have happened."

WIA's full story is on-line at:
http://www.wia.org.au/newsevents/news/2009/20090505-4/index.php

[ANS thanks Wireless Institute of Australia for the above information]

/EX

SB SAT @ AMSAT $ANS-130.6
ARISS Schedule

AMSAT News Service Bulletin 130.6
From AMSAT HQ SILVER SPRING, MD.

May 4, 2009
To All RADIO AMATEURS
BID: $ANS-130.6

Amateur Radio on the International Space Station
(ARISS) Status Report
May 4, 2009

1. Upcoming School Contacts

Flemish Space Days, organized by the Flemish Space Industry (VRI), was held May 8 - 10 in the Brabanthal in Leuven, Belgium. Interactive booths, educational workshops and movies on space, avionics and astronomy are some of the activities that attracted schools, youth and the public to this three-day event. On May 8, the event was open to school children, ages 3-18, only. A special program has been developed with the cooperation of ESA and ESERO (European Space Education Resource Office) for teachers and students. An Amateur Radio on the International Space Station (ARISS) contact has been scheduled for this event on Sunday, May 10 at 10:51 UTC. Telebridge station W6SRJ in California will facilitate the contact.

JAXA astronaut Koichi Wakata, KC5ZTA will participate in an Amateur Radio on the International Space Station (ARISS) contact with Besyo Elementary School in Saitama, Japan on Monday, May 11 at 11:01 UTC. Wakata is an alumnus of the school. The conversation will be in Japanese.

2. Space Day Contact with National Air and Space Museum

The National Air and Space Museum in Washington, D.C. participated in Space Day on May 2. Visitors participated in hands-on activities, met astronauts and learned about space from experts and museum displays. An Amateur Radio on the International Space Station (ARISS) contact was held in conjunction with these activities through telebridge station W6SRJ in California. Astronaut Ricky Arnold II was present to answer questions prior to the contact and for photo opportunities. The contact was recorded by the museum in high definition for future use. The Radio Amateur Satellite Corporation (AMSAT) and the American Radio Relay League (ARRL) members manned an exhibition booth and distributed AMSAT, ARRL and NASA education material including 2009 Space Station calendars. Approximately 20,000 people attended the museum throughout the day.

3. Astronaut Training Status

Amateur Radio on the International Space Station (ARISS) team provided training on its amateur radio equipment to

NASA astronauts Nicole Stott, KE5GJN and Catherine Coleman,
KC5ZTH. Energia has posted a photo report on the training.
See: http://www.energia.ru/eng/iss/iss20/photo_04-23.html

4. ARRL Article on Dayton Hamvention Events

The American Radio Relay League (ARRL) posted an article
on its upcoming convention at the Dayton Hamvention to be
held over the May 15-17 weekend. Richard Garriott will be
available to meet and greet attendees and will give a talk
about his amateur radio activities onboard the ISS.
"The 2009 ARRL National Convention and Dayton Hamvention:
Two Weeks and Counting!" may be found at:
http://www.arrl.org/news/stories/2009/04/30/10793/?nc=1

5. JSC Education Office Meeting Held

The NASA Education Office hosted a meeting with the Amateur
Radio on the International Space Station (ARISS) team at
Johnson Space Center over May 1-2. Program initiatives and
educational outreach were addressed.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

73,
This week's ANS Editor,
Dee Interdonato, NB2F

48. Kitchenaid Gas Grill

Newsgroup: rec.radio.amateur.space
Date: 2009-05-21 04:05:49 UTC
From: Azim@heidy.com
Message-ID: <4a15525a$0$7092$586e9bf6@usenetnow.com>
Source record: 747

KitchenAid Built In BarBecue Grill KBNU487TSS
Price:$2,878.80
Image: http://bestdeallocator.info/image.php?id=B0015YG5X6
Best deal: http://bestdeallocator.info/index.php?id=B0015YG5X6

KitchenAid Built In BarBecue Grill KBSU367TSS
Price:$2,691.60
Image: http://bestdeallocator.info/image.php?id=B00154WAT4
Best deal: http://bestdeallocator.info/index.php?id=B00154WAT4

KitchenAid Built In BarBecue Grill KBNS271TSS
Price:$1,480.80
Image: http://bestdeallocator.info/image.php?id=B0015YI9DA
Best deal: http://bestdeallocator.info/index.php?id=B0015YI9DA

KitchenAid Built In BarBecue Grill KBNS361TSS
Price:$2,104.80
Image: http://bestdeallocator.info/image.php?id=B0015YOFBU
Best deal: http://bestdeallocator.info/index.php?id=B0015YOFBU

KitchenAid Built In BarBecue Grill KBNU367TSS
Price:$2,302.80
Image: http://bestdeallocator.info/image.php?id=B0015YOFCO
Best deal: http://bestdeallocator.info/index.php?id=B0015YOFCO

KitchenAid Built In BarBecue Grill KBSS361TSS
Price:$2,526.00
Image: http://bestdeallocator.info/image.php?id=B00154URGW
Best deal: http://bestdeallocator.info/index.php?id=B00154URGW

KitchenAid Built In BarBecue Grill KBSU487TSS
Price:$3,289.20
Image: http://bestdeallocator.info/image.php?id=B00154WAVC
Best deal: http://bestdeallocator.info/index.php?id=B00154WAVC

KitchenAid Built In BarBecue Grill KBNU487TSS
Price:$2,878.80
Image: http://bestdeallocator.info/image.php?id=B0015YG5X6
Best deal: http://bestdeallocator.info/index.php?id=B0015YG5X6

KitchenAid Built In BarBecue Grill KBSU367TSS
Price:$2,691.60
Image: http://bestdeallocator.info/image.php?id=B00154WAT4
Best deal: http://bestdeallocator.info/index.php?id=B00154WAT4

KitchenAid Built In BarBecue Grill KBNS271TSS
Price:$1,480.80

Image: http://bestdeallocator.info/image.php?id=B0015YI9DA
Best deal: http://bestdeallocator.info/index.php?id=B0015YI9DA

KitchenAid Built In BarBecue Grill KBNS361TSS
Price:$2,104.80
Image: http://bestdeallocator.info/image.php?id=B0015YOFBU
Best deal: http://bestdeallocator.info/index.php?id=B0015YOFBU

KitchenAid Built In BarBecue Grill KBNU367TSS
Price:$2,302.80
Image: http://bestdeallocator.info/image.php?id=B0015YOFCO
Best deal: http://bestdeallocator.info/index.php?id=B0015YOFCO

KitchenAid Built In BarBecue Grill KBSS361TSS
Price:$2,526.00
Image: http://bestdeallocator.info/image.php?id=B00154URGW
Best deal: http://bestdeallocator.info/index.php?id=B00154URGW

KitchenAid Built In BarBecue Grill KBSU487TSS
Price:$3,289.20
Image: http://bestdeallocator.info/image.php?id=B00154WAVC
Best deal: http://bestdeallocator.info/index.php?id=B00154WAVC

49. WSR-141 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-05-22 13:25:23 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000b01c9dae0$ba5ce770$2f16b650$@net>
Source record: 748
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-141.S1
WSR 141 Part 1 05/21/2009

AMSAT NEWS SERVICE BULLETIN 141.S1
FROM AMSAT HQ SILVER SPRING, MD, May 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-141.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
```

Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS

Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[04062009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-141.S2
WSR 141 Part 2 05/21/2009

AMSAT NEWS SERVICE BULLETIN 141.S2
FROM AMSAT HQ SILVER SPRING, MD, May 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-141.S2

ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol

Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====

NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791

Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[040602009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-141.S3
WSR 141 Part 3 05/21/2009

AMSAT NEWS SERVICE BULLETIN 141.S3
FROM AMSAT HQ SILVER SPRING, MD, May 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-141.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/

[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:

http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-141.S4
WSR 141 Part 4 05/21/2009

AMSAT NEWS SERVICE BULLETIN 141.S4
FROM AMSAT HQ SILVER SPRING, MD, May 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-141.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

UNITEC
Catalog Number:
Proposed Launch Date: May 2010

Status: Design Phase

Proposed Equipment:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=141
[01152009]
=====
XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: ??????

Status: STORAGE

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[02212009]
=====
Eagle AO-??

Catalog Number:
Proposed Launch Date: ?????

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web page: http://www.amsat.org
[02212009]
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SB SAT @ AMSAT W8ISS ANS-141.S5
WSR 141 Part 5 05/21/2009

AMSAT NEWS SERVICE BULLETIN 141.S5
FROM AMSAT HQ SILVER SPRING, MD, May 21, 2009
TO ALL RADIO AMATEURS
BID: $ANS-141.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)

* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

50. ANS-144 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-05-24 01:22:31 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000e01c9dc0e$177c1330$46743990$@net>
Source record: 749
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-144

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Successful CubeSat Launch
* AMSAT Announces 2009 Space Symposium
* AMSAT Awards
* Join Regional AMSAT Nets via Echolink
* ON1DWN to Become ISS Commander
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-144.01
Successful CubeSat Launch

AMSAT News Service Bulletin 144.01
>From AMSAT HQ SILVER SPRING, MD.
May 24, 2009
To All RADIO AMATEURS
BID: $ANS-144.01

This week Orbital Sciences successfully launched its Minotaur I rocket carrying the Tactical Satellite-3 (TacSat-3) for the U.S. Air Force from the Mid-Atlantic Regional Spaceport (MARS) launch facility at NASA's Wallops Flight Facility on Wallops Island, VA.

Also aboard the May 19 launch were several CubeSats:

Satellite	USA Operator	Downlink	Mode
PharmaSat-1	NASA, Stanford University	437.465	1200bps AFSK
CP-6	CalPoly	437.365	1200bps AFSK
HawkSat-1	Hawk Institute for Space Sciences	437.345	Unknown
AeroCube-3	Aerospace Corporation	Unknown	Unknown

(thanks Mineo JE9PEL)

PharmaSat is a 10 x 10 x 30 cm. spacecraft that houses an advanced biological laboratory as its payload. This laboratory will measure the influence of microgravity upon yeast resistance to an antifungal agent. The PharmaSat mission website at http://www.pharmasat.org

The primary mission of CP6 is to implement an attitude control system using only magnetic torquers embedded within the side panels. Attitude determination is performed using two-axis magnetometers on each side panel as well as observation imagers on the payload face.

Once the primary objectives have been met, a command will be sent to deploy the secondary payload that consists of a series of spring steel tapes. The data will be used to guide the future design of an electro-dynamic tether. More info at: http://polysat.calpoly.edu/CP6.php

CalPoly CPX Data Capture and Decoder:
http://moredbs.atl.calpoly.edu/downloads/cpxdd

A description of the CalPoly telemetry database is at:
http://moredbs.atl.calpoly.edu/

At press time the only information available regarding the mission of HawkSat-1 comes from their web page stating, "HawkSat-I will be the first satellite designed, integrated, tested and flown entirely from the Eastern Shore. In addition to accomplishing our own scientific and engineering objectives HawkSat-I is also providing a platform for experimental research funded by a major aerospace firm." See: http://www.hawkspace.org/projects.html for additional information.

The architecture of HawkSat-1 is based around a Pumpkin Incorporated CubeSat kit, and carries a technology demonstration payload, primarily as a proof-of-concept mission, testing command, data and power subsys-tems, as well as solar panels and communications.

The AeroCube-3 is a non-Amateur Radio CubeSat carrying technology development experiments. The primary systems being demonstrated are a two-axis solar tracker, and an Earth tracker, which could be used in the guidance systems of future satellites. It also carries a 2 foot diameter balloon which will be used for tracking tests, and to increase drag, increasing the satellite's orbital decay, after its mission has been completed.

The primary payload, TacSat-3 is a 12-month mission is to demonstrate capability to conduct imaging that is responsive to the needs of the U.S. military. It contains a unique bus architecture which enables rapid integration and modular packaging of both bus and payload com-ponents. This will allow future Operationally Responsive Space (ORS) missions enabling a seven-day call-up requirement for specialized mil-sats.

Objects associated with this launch have been added to the AMSAT KEPS. They are called Object A, Object B, Object C, Object D, and Object E. Refer to: http://www.amsat.org/amsat-new/tools/keps.php

[ANS thanks SpaceDaily Express and the CubeSat Teams for the above information]

/EX

SB SAT @ AMSAT $ANS-144.02
AMSAT Announces 2009 Space Symposium

AMSAT News Service Bulletin 144.02
>From AMSAT HQ SILVER SPRING, MD.
May 24, 2009
To All RADIO AMATEURS
BID: $ANS-144.02

AMSAT announces the 2009 AMSAT Space Symposium and ARISS Operations Team Meeting will be held on Friday, October 9th through Sunday, October 11th. The ARISS Operations Team Meeting will take place on Sunday and Monday.

This year we have selected the Four Points Sheraton hotel that is on the Baltimore-Washington Airport property. There is a free shuttle bus from the airport to the hotel. From this location, you can visit Washington DC, the inner harbor in Baltimore and Annapolis. You can use public transportation to Washington and Baltimore. Visiting Annapolis will require a car. Within 5 minutes of the hotel is the the National Electronics Museum. Also close by are the National Cryptologic Museum and the National Vigilance Park.

The room rate is $115 for Wednesday and Thursday. It then drops to $90 for Friday and Saturday. Sunday and Monday it goes back to $115.

Watch http://www.amsat.org/amsat-new/symposium/2009/index.php for more news as it becomes available.

[ANS thanks AMSAT's 2009 Symposium Committee for the above information]

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SB SAT @ AMSAT $ANS-144.03
AMSAT Awards

AMSAT News Service Bulletin 144.03
>From AMSAT HQ SILVER SPRING, MD.
May 24, 2009
To All RADIO AMATEURS
BID: $ANS-144.03

AMSAT Director Contests and Awards, Bruce Paige, KK5DO reports the AMSAT Satellite Communications Achievement Award has been issued to

John Papay, K8YSE #489
Who will receive #500? Stay tuned.

To join the Satellite Communicators' Club all you need to do is to make one satellite contact. Send the report of your contact, plus $1.00 for AMSAT members or $2.00 for non-members to the AMSAT-NA

Director of Awards and Contests.

The OSCAR Satellite Communications Achievement Award requires satellite contacts with 20 different U.S. states or Canadian call areas or DXCC countries.

The South Africa AMSAT Satellite Communications Achievement Award requires working 25 different stations on phase 2 satellites. Satellites that qualify for this award are AO-7, Fuji-Oscar 29, AO-21, AO-27, VO-52 and AO-51 as well as future satellites that are LEO.

The OSCAR Sexagesimal Award requires satellite contacts with 60 different U.S. states or Canadian call areas or DXCC countries.

The OSCAR Century Award requires satellite contacts with 100 different U.S. states or Canadian call areas or DXCC countries.

The Robert W. Barbee Jr., W4AMI Satellite Operator Achievement Award requires 1000 two-way contacts with any station on any satellite (OSCAR-6 or later). Endorsements are issued for 2000, 3000, and 4000 contacts, and a special certificate is issued for 5000 or more contacts.

Please note, eQSL cards are not valid for AMSAT or ARRL awards. Email confirmations of a QSO is also not acceptable. To see all the awards visit http://www.amsat.org

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-144.04
Join Regional AMSAT Nets via Echolink

AMSAT News Service Bulletin 144.04
>From AMSAT HQ SILVER SPRING, MD.
May 24, 2009
To All RADIO AMATEURS
BID: $ANS-144.04

The Houston AMSAT Net is now being carried live every week on the *AMSAT* Echolink conference on Tuesday 8PM Central Time. This is Wednesday 0100z during USA daylight saving time and 0200z during USA Standard Time. ARISS contacts using the AMSAT conference will preempt the Houston Net. Effective June 1, 2009 the Houston Crew will no longer feed their net over the SkyScanner Satellite Radio Network. Their podcast and mp3 files will continue to be available after the net is complete at http://www.amsatnet.com/

The next Hudson Valley Satcom group net is Thursday, May 28 at 8PM (EDT / UTC-4) on the Mt. Beacon ARC 2 Meter Repeater. This net is also available on the n2eyh-l node on Echolink. This net meets on alternate Thursdays which includes the 2nd and 4th Thursday of June. More information can be found by clicking the "HV Satcom" link at

http://www.wr2abb.org. Past nets are archived at this site.

[ANS thanks Bruce, KK5DO and Stu, WA2BSS for the above information]

/EX

SB SAT @ AMSAT $ANS-144.05
ON1DWN to Become ISS Commander

AMSAT News Service Bulletin 144.05
>From AMSAT HQ SILVER SPRING, MD.
May 24, 2009
To All RADIO AMATEURS
BID: $ANS-144.05

Amateur Radio Newsline reports that Frank De Winne, ON1DWN, is set to become the first European Space Agency astronaut to oversee the International Space Station.

De Winne is currently at Russia's cosmonaut training center outside of Moscow. He will leave there later this week and fly to neighboring Kazakhstan, where a Soyuz rocket is being prepared to carry him, Russian cosmonaut Roman Romanenko and Canadian Space Agency astronaut Robert Thirsk, VA3CSA, to the orbiting space outpost. That launch is currently scheduled for May 27 .

The arrival of these three space adventurers which will bring the total number of crew on the ISS to six for the first time. For the first four months De Winne, who is from Belgium, will be a Flight Engineer as a member of the Expedition 20 Crew. With the next crew rotation ON1DWN will take over as Commander of Expedition 21 and will serve in that position until his return to Earth in November. This will mark the first time that someone other than a Russian or an American has held that post. More is on-line at http://news.bbc.co.uk/1/hi/sci/tech/8037431.stm

[ANS thanks Amateur Radio Newsline for the above information]

/EX

SB SAT @ AMSAT $ANS-144.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 144.06
>From AMSAT HQ SILVER SPRING, MD.
May 24, 2009
To All RADIO AMATEURS
BID: $ANS-144.06

+ The American Radio Relay League (ARRL) President Joel Harrison presented past Amateur Radio on the International Space Station (ARISS) Chairman Frank Bauer, KA3HDO with the ARRL President's Award. This award is voted on by the Board of Directors and given out every 7 or 8 years to honor someone's outstanding work.

+ Matthias, DD1US reported he has recently updated his "Sounds from Space" collection of satellite signals at http://www.dd1us.de.

+ Congratulations are in order to Joe, K3SZH having logged over 9000 contacts via AO-7.

+ The AMSAT INDIA May 2009 newsletter is available for download at http://www.amsatindia.org/Newsletter/AmsatIndia-News-May-09.pdf

+ AMSAT India Secretary Nitin, VU3TYG reports the free VO-52 operating award certificates have been printed and will be mailed shortly. AMSAT India is closing the free certificate availability but the award will be available for a fee whose details will be announced at a later date. The list of the award winners can be found at: http://www.amsatindia.org/awards/VO-52-award-Final.bmp

+ If you have photos of the AMSAT booth and Owen and Richard Garriott during Dayton please send them to AMSAT-NA VP User Services, Gould, WA4SXM (wa4sxm@amsat.org).

+ A fun activity for young visitors to your satellite shack can be found at: http://www.eduweb.com/portfolio/designsatellite/

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that keep in mind you know you are getting older when you wake up looking like your driver's license picture.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

51. WSR-148 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-05-30 12:34:13 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c9e122$e9da5f30$bd8f1d90$@net>
Source record: 750
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-148.S1
WSR 148 Part 1 05/28/2009

AMSAT NEWS SERVICE BULLETIN 148.S1
FROM AMSAT HQ SILVER SPRING, MD, May 28, 2009
TO ALL RADIO AMATEURS
BID: $ANS-148.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[04272009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[05212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-148.S2
WSR 148 Part 2 05/28/2009

AMSAT NEWS SERVICE BULLETIN 148.S2
FROM AMSAT HQ SILVER SPRING, MD, May 28, 2009
TO ALL RADIO AMATEURS
BID: $ANS-148.S2

ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129

Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear

V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[04272009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php

[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====

CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[05212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-148.S3
WSR 148 Part 3 05/28/2009

AMSAT NEWS SERVICE BULLETIN 148.S3
FROM AMSAT HQ SILVER SPRING, MD, May 28, 2009
TO ALL RADIO AMATEURS
BID: $ANS-148.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL

=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]

=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]

=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html

[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-148.S4
WSR 148 Part 4 05/28/2009

AMSAT NEWS SERVICE BULLETIN 148.S4
FROM AMSAT HQ SILVER SPRING, MD, May 28, 2009
TO ALL RADIO AMATEURS
BID: $ANS-148.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929

Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

52. ANS-151 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-05-31 14:21:37 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000301c9e1fb$13c665e0$3b5331a0$@net>
Source record: 601
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-151

ANS is a free, weekly, news and information service
of AMSAT North America, The Radio Amateur Satellite
Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share
an active interest in designing, building, launching
and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT-UK shop change
* Satellite info
* Satellite Shorts
* ARRL Presidential Award
* "Echoes of Apollo" event.
* ARISS Schedule

SB SAT @ AMSAT $ANS-151.1
AMSAT-UK shop change

AMSAT News Service Bulletin 151.1
>From AMSAT HQ SILVER SPRING, MD.
May 31, 2009
To All RADIO AMATEURS
BID: $ANS-151.1

After several years of running the AMSAT-UK shop,
Jim G3WGM has handed the reins to Ciaran Morgan M0XTD.
Ciaran obtained his full license in April
2008 and enjoyed organising a very successful ARISS
contact between Budbrooke School in Warwick, England
and Richard Garriott K5KWQ whilst he was onboard the
International Space Station in October 2008.
The AMSAT-UK shop has been an important source of funds
in the past and Ciaran is revamping the current shop to
help it to continue to make a valuable contribution to
the funds into the future. The shop has had a policy of
only stocking items that are difficult to obtain in the
UK and, initially, that policy will remain whilst Ciaran

gets familiar with the stock and identifies other
possible options.
Suggestions are always welcome and a new email address
(amsat-uk-shop@amsat.org) has been setup. Please send
the suggestions in and keep checking the web site for updates.
Due to the level of sales of software, and compatibility
issues with the more recent Microsoft Operating Systems,
it has been decided to stop selling InstantTrack and
QuickTrack. WiSP and SatPC32 licenses will continue to
be issued from the shop Also, there are currently no books
for sale - we are looking at this but suggestions are
always welcome.
On the hardware front, we have restocked with the ever
popular LVB motherboards and we also have a limited number
of complete kits for the LVB Tracker unit. Half of the new
kits also include the AMSAT-NA enclosure with compatible
display unit! We are also investigating restocking the
2.4GHz signal sources from G0MRF and the G7HIA 2.4GHz
patch kits - please keep a watch on the website for
more details.

The AMSAT UK website can be accessed via http://www.uk.amsat.org/
- the shop is accessed via a link on the left
hand side of the web page.

73
Ciaran
M0XTD

[ANS thanks Ciaran,M0XTD, for the above information]

/EX

SB SAT @ AMSAT $ANS-151.2
Satellite info

AMSAT News Service Bulletin 151.2
From AMSAT HQ SILVER SPRING, MD.
May 31, 2009
To All RADIO AMATEURS
BID: $ANS-151.2

AO-51 will be configured for Field Day with dual repeaters,
1268.700/435.150 and 145.920/435.300. No PL tone is required.
Please note that the 435.150 downlink is left hand circular
polarized, and the 435.300 transmitter is right hand circular
polarized. This configuration will be available for the week
preceding Field Day, through the Field Day weekend
(June 22nd-28th, 2009).

AO-7 has returned to experiencing short eclipses each orbit,
thereby preventing the 24 hour timer from switching modes.
AO-7 has been observed to favor Mode U/V (B) almost

exclusively during these periods. Please check
http://oscar.dcarr.org/ or
http://www.planetemily.com/ao7/ao7log.php for
the most recent reports of the current mode.

GO-32 still in bootloader status, return of the BBS is unknown.

[ANS thanks Drew, KO4MA, for the above information]
/EX

SB SAT @ AMSAT $ANS-151.3
Satellite Shorts From All Over

AMSAT News Service Bulletin 151.3
From AMSAT HQ SILVER SPRING, MD.
May 31, 2009
To All RADIO AMATEURS
BID: $ANS-151.3

+ A compendium of non-ham spacecraft frequencies can be found on-line
at: http://www.ntia.doc.gov/osmhome/spectrumreform/Spectrum_Plans_
2007/NASA_Strategic_Spectrum_Plan_Nov2007.pdf

+ Lately, a growing number of observers are reporting intense "flares"
coming from the International Space Station (ISS). During some night
time flybys, the luminosity of the space station surges 10-fold or
more. Some people have witnessed flares of magnitude -8 or twenty-
five times brighter than Venus. (via SpaceWeather.com)

+ A video of the Minotaur launch that lofted the latest flock of cube-
sats (PharmaSat, Hawksat, CP6) to orbit can be viewed at:
http://www.youtube.com/watch?v=YEf9trI1Hf8

+ Watch for Franco's HB9OAB - CN2AB satellite DXpedition to Morocco
between June 27 and July 20. Franco says he favors operation via
VO-52. QSL eQSL or BURO via HB9OAB.

+ An online video simulating a flyover of Mars Olympus Mons volcanco
can be found at:
http://www.dailygalaxy.com/my_weblog/2009/05/mapping-mars-mt.html

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-151.4
ARRL Presidential Award

AMSAT News Service Bulletin 151.4
From AMSAT HQ SILVER SPRING, MD.
May 31, 2009
To All RADIO AMATEURS
BID: $ANS-151.4

FRANK BAUER, KA3HDO, RECEIVES ARRL PRESIDENT'S AWARD

On Saturday, May 16 during the forum featuring Richard Garriott, W5KWQ, at the Dayton Hamvention, ARRL President Joel Harrison, W5ZN, presented former Amateur Radio on the International Space Station (ARISS) <http://www.rac.ca/ariss/oindex.htm> International Chairman Frank Bauer, KA3HDO, with the ARRL President's Award. Bauer, who stepped down from ARISS <http://www.arrl.org/news/stories/2009/03/25/10724/> and Radio Amateur Satellite Corporation's (AMSAT) <http://www.amsat.org/> duties this past March, served as ARISS Program Leader and ARISS International Working Group Chair. Since 1991, he served as AMSAT Vice President for Human Spaceflight Programs.

The ARRL Board of Directors voted to create the President's Award in 2003. The President's Award is to go to an ARRL member or members who "have shown long-term dedication to the goals and objectives of ARRL and Amateur Radio," and who have gone the extra mile to support individual League programs and goals. Nominations for the award come from directors and are approved by the ARRL President and the Executive Committee.

Under Bauer's leadership, Amateur Radio activities have been on human spaceflight vehicles, including NASA-sponsored ham radio activities on the shuttle, Space Station Mir and the ISS. Starting in 1983, Bauer led the Goddard Amateur Radio Club team that provided around-the clock space shuttle retransmissions from the WA3NAN club station. These retransmissions provided the international ham radio community up-to-the-minute information during the flight of Owen Garriott, W5LFL, on STS-9 <http://www.nasa.gov/mission_pages/shuttle/shuttlemissions/archives/sts-9.html> and subsequent SAREX flights. In the days prior to the Internet, these real-time bulletins and frequent orbital element updates could only be obtained through Amateur Radio.

"For well over a decade, I have been fortunate to be part of a group that has been leading international teams together to focus on Amateur Radio on the ISS," Bauer told the ARRL. "As AMSAT Vice President for Human Spaceflight since 1991, I have really worked to get this international team to work as one, focusing on Amateur Radio. It is very critical to get all the space agency partners to have a vested interest in making sure we do Amateur Radio right on the ISS. We need to keep the partnership we have with our international team in good stead."

[ANS thanks ARRL for the above information]
/EX

SB SAT @ AMSAT $ANS-151.5
"Echoes of Apollo" event.

AMSAT News Service Bulletin 151.5
From AMSAT HQ SILVER SPRING, MD.
May 31, 2009
To All RADIO AMATEURS
BID: $ANS-151.5

Commemorating the 40th year anniversary of the Apollo 11 landing on the moon July 20th, 1969, many large commercial dishes worldwide will be active "on

the air" on 23 CM on the weekend of June 26th (Field Day weekend). At present there are many very large commercial dishes as well as many Amateur radio dishes that will be activated on SSB and CW.

Some of the larger dishes will make a two way QSO between small Mode "L" satellite stations possible. The Stanford 150' dish will be participating using various calls, including W6TE. A list of participating dishes will follow.

W6TE will be on the air and testing the Big Stanford dish at various times... call for possible schedule (559) 260-5511 cell) 73,

[ANS thanks Dave Smith, W6TE and the Echoes of Apollo Event Team for the above information]

/EX

SB SAT @ AMSAT $ANS-151.6
ARISS Schedule

AMSAT News Service Bulletin 151.6
From AMSAT HQ SILVER SPRING, MD.
May 25, 2009
To All RADIO AMATEURS
BID: $ANS-151.6

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact was scheduled for Miyahara Junior High School in Saitama, Japan on Tuesday, May 26 at 11:12 UTC. Speaking in Japanese, JAXA astronaut Koichi Wakata, KC5ZTA will chat with the students about life in space.

Mahopac Public Library in Mahopac, New York has been scheduled for an Amateur Radio on the International Space Station (ARISS) contact on Wednesday, June 3 at 15:47 UTC. This contact will be facilitated by telebridge station ON4ISS in Belgium. This school district public library serves six public and five private schools, with a total of 26,485 served. The library will coordinate this question and answer session with the Putnam Emergency Amateur Radio League.

Kawanishi Seiwadai Community Center in Hyogo, Japan has been scheduled for an Amateur Radio on the International Space Station (ARISS) contact on Saturday, June 6 at 07:55 UTC. The community center was established in 1987 and serves the area's 5000 households. To prepare for the contact, children researched the ISS and studied space and the global environment. This ARISS contact will be conducted in Japanese.

2. ARISS International Team Meeting Held

The Amateur Radio on the International Space Station (ARISS) International Team meeting was held on Tuesday, May 19. Topics of discussion included the upcoming face to face meeting in the Netherlands and SuitSat-2 status.
See: http://www.rac.ca/ariss/arisstel2009-05-19.htm

3. ARRL Article on Dayton Hamvention, Garriott

The American Radio Relay League (ARRL) published a story in its May 22 issue of the ARRL Letter about the 2009 ARRL National Convention, Dayton Hamvention and Richard Garriott, W5KWQ. The item on Garriott covers his presentations at the ARRL and AMSAT (Radio Amateur Satellite Corporation) forums, the ARRL Expo, and the ARRL Youth Lounge.
See: http://www.arrl.org/arrlletter/09/0522/

The ARRL Letter has a circulation of 115,000.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

73,
This week's ANS Editor,
Dee Interdonato, NB2F

53. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.space
Date: 2009-06-01 06:00:03 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1243836001@panix.com>
Source record: 602
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

54. Testing - aQuirements, ?

Newsgroup: rec.radio.amateur.space
Date: 2009-06-06 16:33:05 UTC
From: Rob <robg@telus.net>
Message-ID: <5TwWl.29665$Db2.14025@edtnps83>
Source record: 603

```
A littler Lighters l Here, 1 - I'm movin ins, Tos the cerneGyies of ins the
_
"certer of The eaRth,<
-King Geek
-aLt.KnWWWWWWWWWWwing not
& persuant of vast summs of cash, I'm in charGe, also - - -- spaceds ouT
```

55. Radio Meteor Obs. Bull. May 2009

Newsgroup: rec.radio.amateur.space
Date: 2009-06-06 17:44:14 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <3mal25lgf8a9vm60n5e6hr0863krv1qu29@4ax.com>
Source record: 604
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 190 of May 2009 (76 K) is available now as

http://www.rmob.org/rmobtext/rmob0905.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

56. WSR-156 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-06-07 01:16:33 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001201c9e70d$9239c360$b6ad4a20$@net>
Source record: 605
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-156.S1
WSR 156 Part 1 06/05/2009

AMSAT NEWS SERVICE BULLETIN 156.S1
FROM AMSAT HQ SILVER SPRING, MD, June 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-156.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[06052009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06052009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-156.S2
WSR 156 Part 2 06/05/2009

AMSAT NEWS SERVICE BULLETIN 156.S2
FROM AMSAT HQ SILVER SPRING, MD, June 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-156.S2

CP-6
Catalog Number: 35004
Launch Date: May 19th, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19th, 2009

Status: ?

Downlink: ?
[06052009]
=====
Pharmasat
Catalog Number: 35002

Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL

=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]

=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[06052009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM

145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]

=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL

=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v

BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka
Flight Engineer: Michael Barratt
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06052009]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-156.S3
WSR 156 Part 3 06/05/2009

AMSAT NEWS SERVICE BULLETIN 156.S3
FROM AMSAT HQ SILVER SPRING, MD, June 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-156.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]

=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-156.S4
WSR 156 Part 4 06/05/2009

AMSAT NEWS SERVICE BULLETIN 156.S4
FROM AMSAT HQ SILVER SPRING, MD, June 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-156.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

57. ANS-158 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-06-07 01:23:23 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001501c9e70e$89a1a3c0$9ce4eb40$@net>
Source record: 606
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-158

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:

* Call for Nominations AMSAT Board of Directors
* 2009 AMSAT Annual Meeting and Space Symposium - Call for papers
* New Members Welcomed to AO-51 Operations Committee
* AMSAT Awards
* Hotel Booking Details for AMSAT-UK Space Colloquium July 25-26
* COMPASS Satellite Team Releases New Commands for Amateur Radio
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-158.01
Call for Nominations AMSAT Board of Directors

AMSAT News Service Bulletin 158.01
>From AMSAT HQ SILVER SPRING, MD.
June 7, 2009
To All RADIO AMATEURS
BID: $ANS-158.01

Pursuant to AMSAT-NA Bylaws, ARTICLE III Meetings and Election of Directors; Section 2:
http://www.amsat.org/amsat-new/AboutAmsat/documents/bylaws.php

Written nominations of Members for the position of Director, which nominees shall have agreed to serve if elected, shall be received by the Secretary on or before June 15 of each year.

The deadline for nominations for the 2009 AMSAT Board of Directors elections to be received at the AMSAT office is no later than June 15, 2009. A nomination requires either one AMSAT Member Society or five current AMSAT members. A director serves 2 years.

Nominations must be in writing and send via regular mail to: AMSAT, 850 Sligo Ave #600, Silver Spring, MD 20910. E-mail nominations cannot be accepted.

The seats on the Board that are up for election include, Rick Hambly, W2GPS; Barry Baines, WD4ASW; Drew Glasbrenner, KO4MA; and Gunther Meisse, W8GSM.

The AMSAT Office reports at press time, the following people have been nominated: Anthony Monteiro, AA2TX; Bill Ress, N6GHZ; Barry Baines, WD4ASW; Drew Glasbrenner, KO4MA; Alan Biddle, WA4SCA.

Gunther Meisse, W8GSM has advised the Board that he will not run for another term. Gunther said, "With the increased pressure of my day job and the economic pressures that are present for the public media, I need to spend 110% of my time with the family's Radio and Television stations. I have enjoyed the wonderful time with the brilliant brain trust within AMSAT, but business calls. It is my hope that the membership will elect new, young, innovative thinkers to the BoD. AMSAT, just like my industry, is changing and we need new thinkers to deal with the new realities. I send my special thank you to all the members who have supported my ideas over the last few years. It has been fun and educational. Never stop seeking out new things to learn!" Rick Hambly, W2GPS also will not seek re-election to the Board this year.

[ANS thanks the AMSAT Board of Directors for the above information]

/EX

SB SAT @ AMSAT $ANS-158.02
2009 AMSAT Annual Meeting and Space Symposium - Call for papers

AMSAT News Service Bulletin 158.02
>From AMSAT HQ SILVER SPRING, MD.
June 7, 2009
To All RADIO AMATEURS
BID: $ANS-158.02

This is the first call for papers for the 2009 AMSAT Annual Meeting and Space Symposium to be held October 9 - 11 at the Four Points Sheraton Hotel at the Baltimore Washington Airport.

Proposals for papers, symposium presentations and poster presentations are invited on any topic of interest to the amateur satellite community.

We request a tentative title of your presentation as soon as possible, with final copy submitted by September 1, 2009 for inclusion in the printed proceedings.

Abstracts and papers should be sent to Dan Schultz, N8FGV, at
n8fgv@amsat.org.

[ANS thanks Dan, N8FGV for the above information]

/EX

SB SAT @ AMSAT $ANS-158.03
New Members Welcomed to AO-51 Operations Committee

AMSAT News Service Bulletin 158.03
>From AMSAT HQ SILVER SPRING, MD.
June 7, 2009
To All RADIO AMATEURS
BID: $ANS-158.03

AMSAT VP Operations, Drew KO4MA announced, "I'm proud to welcome
Doug Papay, KD8CAO and Ed Clayo, N8BBQ to the AO-51 Operations Com-
mittee. Doug and Ed are both consummate AO-51 operators, and have
supported past AMSAT special events."

Drew continued, "The response for our call for volunteers last month
was outstanding and I want to thank all of those who applied, and
encourage them to continue to support AMSAT by volunteering in some
way."

The Operations Committee also welcomed Mark Hammond, N8MH aboard
joining the AO-51 command team now that AO-16 operations are on
hiatus until the next period of increased illumination. Drew noted,
"As AO-51 approaches 5 years in orbit this month, the satellite is
becoming more demanding of our control team and Mark will be a fine
addition to the team."

[ANS thanks Drew, KO4MA for the above information]

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SB SAT @ AMSAT $ANS-158.04
AMSAT Awards

AMSAT News Service Bulletin 158.04
>From AMSAT HQ SILVER SPRING, MD.
June 7, 2009
To All RADIO AMATEURS
BID: $ANS-158.04

AMSAT Director Contests and Awards Bruce, KK5DO says
congratulations are in order for the amateur radio
operators on his AMSAT Awards list.

We would like to welcome the following to the Satellite
Communicators Club for making their first satellite contact.

Michael Klomfass, DH5MK
Michael McMahan, KC9NXP
Steve Rish, K8SAR

The following have earned the AMSAT Satellite Sexagesimal Communications Award:

John Papay, K8YSE, #148
Michael Klomfass, DH5MK, #149

Bruce also noted that the he AMSAT Satellite Communications Achievement Award is approaching certificate #500. Bruce predicted that someone may possibly reach this milestone in the next week or two. If you have not sent in for this award yet, now is the time to do it.

To see all the awards visit http://www.amsat.org.

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-158.05
Hotel Booking Details for AMSAT-UK Space Colloquium July 25-26

AMSAT News Service Bulletin 158.05
>From AMSAT HQ SILVER SPRING, MD.
June 7, 2009
To All RADIO AMATEURS
BID: $ANS-158.05

As you may have heard, the location of the AMSAT-UK Colloquium (25/26 July 2009) has been switched from Manchester to Guildford. This is to ensure the best possible event for the largest number of visitors. The venue has been changed to the Holiday Inn Hotel at Guildford - this is very close to the Surrey University where the event has been held previously. It is just off the Cathedral roundabout on the A3.

The 2009 AMSAT Colloquium will now commence at 10am on Saturday July 25th and close at approximately 4.30 pm on the Sunday.

The new venue will enable visitors to attend at a significantly lower cost than last year and experience greatly improved accommodation. The two days will be filled with presentations covering all the latest amateur satellite happenings and developments.

The new GB4FUN trailer will also be in attendance and available to demonstrate satellite operations.

An informal social gathering is also planned for those who are able to arrive on the Friday evening

Full details of the booking arrangements are below. Check our website for any late breaking news. http://www.uk.amsat.org/ and also full details of how to get to Guildford etc.

Members and non-members will be equally welcome.

AMSAT-UK Colloquium 2009 - Booking Information

Special rates at the hotel have also been negotiated for the
Friday and Sunday nights should delegates wish to arrive early,
or depart late.

To book your place at the Colloquium, YOU MUST BOOK WITH THE
HOTEL. (Please do not attempt to book with AMSAT-UK as in previous
years)

The easiest way to do this is to phone the special Conference Office
at the hotel on +44 (0) 1483 784444 and quote reference R0F (That's
R zero F). You must lodge your credit card details with the hotel.
If you wish to book over the internet, then please email the hotel
on meetings-guildford@ihg.com. PLEASE NOTE THAT IN ORDER TO GUARANTEE
A ROOM AT THE HOTEL FOR THE SAT NIGHT YOU MUST BOOK BEFORE FRIDAY 3
JULY.

Bookings for the Fri/Sun nights, or ones made after this date cannot
be guaranteed.

YOU ARE ADVISED TO BOOK EARLY, AS THE HOTEL WILL ONLY HOLD A LIMITED
NUMBER OF ROOMS FOR US.

Costs

The complete package, including tea/coffee, attendance at all present-
ations, a gala dinner on Saturday evening, bed and breakfast on Sat pm
through Sun morning is only UK Pounds ï¿½128. This price does NOT
include
lunch, which may be taken at the hotel, or elsewhere. (Cost of a three-
course buffet style lunch at the hotel is ï¿½15, alternatively the hotel

offers bar meals/snacks)

The special rate for bed and breakfast on either Fri/Sat or Sun/Mon is
UK pounds ï¿½75.00 per night.

If you do not wish to stay at the hotel overnight (for example, if you
live locally), you can book attendance at the presentations at the rate
of ï¿½25.00 per day (includes tea/coffee, excludes lunch) and/or the
Gala
Dinner on Saturday evening at ï¿½20.00. Again these booking must be made

directly with the hotel.

Jim Heck, G3WGM
Hon Sec AMSAT-UK

[ANS thanks AMSAT-UK for the above information]

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SB SAT @ AMSAT $ANS-158.06
COMPASS Satellite Team Releases New Commands for Amateur Radio

AMSAT News Service Bulletin 158.06
>From AMSAT HQ SILVER SPRING, MD.
June 7, 2009
To All RADIO AMATEURS
BID: $ANS-158.06

The COMPASS satellite team is happy to announce three DTMF commands
to the Amateur Radio community to say THANK YOU for your support.

The uplink frequency for COMPASSis 145.980 MHz FM, and the new
DTMF tones for Amateur Radio operator to request information from
the satellite include:
**35## - request a test beacon CW
**36## - request a test packet 1k2 AFSK FM (UI-Frame)
**60## - request a housekeeping frame in 1k2 AFSK FM (KISS frame)

Every command will be confirmed with a short "beep" on the CW beacon
frequency of 437.275 MHz. Packet data is sent on 437.405 MHz. A news
blog can be found at http://www.raumfahrt.fh-aachen.de/news.htm.

COMPASS telemetry decoding software is available on-line from:
http://www.dk3wn.info/software.shtml.

Please send your received data to compass1cubesat@googlemail.com
Also, if you have any questions please donï¿½t hesitate to ask us at
this e-mail address.

Henk, PA3GUO has posted a video describing his reception of Compass-1
AFSK telemetry at http://www.vimeo.com/4911267. To play the movie
full-screen, click on the right bottom button in the player. Also
there is a HD button, ensure it is showing "HD is on".

[ANS thanks Mike, DK3WN for the above information]

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SB SAT @ AMSAT $ANS-158.07
Satellite Shorts From All Over

AMSAT News Service Bulletin 158.07
>From AMSAT HQ SILVER SPRING, MD.
June 7, 2009
To All RADIO AMATEURS
BID: $ANS-158.07

+ Piraja, PS8RF reported copying Jean-Jacques, ON7EQ via AO-7 over a
distance of 4757 miles, or 7616 Km. He has a video of the DX event
posted at http://www.youtube.com/watch?v=ggNmQqxARWY.

+ Once again we are approaching the 4th full weekend in June and that
means Field Day. The AMSAT 2009 Field Day rules have been posted at:
http://www.amsat.org/amsat-new/awards/amsatfd.php

+ Amateur Radio operators are reporting receiving the AMSAT-India
VO-52 Award in the mail. AMSAT-India Secretary Nitin, VU3TYG says

the award continues to be available with details on-line at:
http://www.amsatindia.org

+ Robert, NH7WN in Honolulu reported contact with Patrick, WD9EWK and copied Michael WB7QXU via AO-51. Patrick reported, "It appears we covered a path of just over 2900 miles (almost 4700km) with that brief

contact. Clint, K6LCS reported that NH7WN sounded great in Riverside, California.

+ Tim, N3TL has been experimenting with 500 milliwatt power on his AO-7 uplink. He reports contact with K8YSE. Tim also thanks Rick, WA4NVM, Pete, WB2OQQ, and others who were listening for him on these tests.

+ Raul, CA3SOC has posted several videos of his satellite operation with his FT-847 and Ham Radio Deluxe software at:
http://www.youtube.com/profile?userÎ3soc&view=videos

+ A graphic satellite tracker can be viewed at: http://www.opensats.net

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. With that please keep in mind that if you go duck hunting in a swamp try not to get stuck in the quackmire!

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

58. WSR-162 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-06-12 01:43:29 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001801c9eaff$26d393d0$747abb70$@net>
Source record: 607
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-163.S1
WSR 163 Part 1 06/12/2009

AMSAT NEWS SERVICE BULLETIN 163.S1
FROM AMSAT HQ SILVER SPRING, MD, June 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-162.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[06052009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-163.S2
WSR 163 Part 2 06/12/2009

AMSAT NEWS SERVICE BULLETIN 163.S2
FROM AMSAT HQ SILVER SPRING, MD, June 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-163.S2

CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL

=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]

=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[02212009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: 435.150 MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[06052009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM

145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]

=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL

=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v

BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-163.S3
WSR 163 Part 3 06/12/2009

AMSAT NEWS SERVICE BULLETIN 163.S3
FROM AMSAT HQ SILVER SPRING, MD, June 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-163.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]

=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-163.S4
WSR 163 Part 4 06/12/2009

AMSAT NEWS SERVICE BULLETIN 163.S4
FROM AMSAT HQ SILVER SPRING, MD, June 12, 2009
TO ALL RADIO AMATEURS
BID: $ANS-163.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

59. ANS-165 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-06-14 01:20:30 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201c9ec8e48236480d86a2d80$@net>
Source record: 608
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-165

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:

* AO-51 Special Event: Kid's Day June 20
* AO-51 Field Day Configuration
* Treat Yourself to an Amateur Radio Conference
* 7000 KM Contact Via AO-7 Mode B - Brazil to Belgium
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-165.01
AO-51 Special Event: Kid's Day June 20

AMSAT News Service Bulletin 165.01
>From AMSAT HQ SILVER SPRING, MD.
June 14, 2009
To All RADIO AMATEURS
BID: $ANS-165.01

Amateur Radio Kids Day will be held on Saturday, June 20, 2009, between 1800 UTC - 2400 UTC. This on-air event encourages young people (licensed or not) to have fun with Amateur Radio, hopefully interesting them get a ham radio license of their own. It also gives us "older hams" [ahem!] a chance to share our love for amateur radio with the kids.

AMSAT VP Operations, Drew KO4MA announced that one of AO-51's repeaters will be dedicated to Kid's Day stations during this period. During the event please limit QSOs to those with youth participants on the satellite. The frequencies for this event

will be:

AO-51 FM Repeater, V/U
Uplink: 145.880 Mhz FM
Downlink: 435.300 Mhz FM

The suggested exchange includes name, age, location and favorite color. To draw attention mention "Kids Day" when you call on the satellite.

All participants are eligible to receive a colorful certificate. You can download this certificate for free, customized with the youngster's names, after filling out the Kids Day Survey on the ARRL Web Site.

Alternatively, you can send a 9" x 12" SASE to Boring Amateur Radio Club, PO Box 1357, Boring, OR 97009. An email reflector for Kids Day has been set up. More info about this list can be found at: http://lists.contesting.com/mailman/listinfo/kids

[ANS thanks the AO-51 Operations Team and the ARRL for the above information]

/EX

SB SAT @ AMSAT $ANS-165.02
AO-51 Field Day Configuration

AMSAT News Service Bulletin 165.02
>From AMSAT HQ SILVER SPRING, MD.
June 14, 2009
To All RADIO AMATEURS
BID: $ANS-165.02

AMSAT's Satellite Field Day is held concurrently with the annual ARRL Field Day emergency preparedness exercise. This year the event will take place between 1800 UTC on Saturday June 27, 2009 through 2100 UTC on Sunday June 28, 2009.

AMSAT encourages stations to prepare for operations on all of the satellite modes - analog, FM, and digital. The congestion on FM LEO satellites has become so intense based on experience in prior years that we request to limit your use to one-QSO-per-FM-satellite. The ARRL rules only allow one contact per FM satellite to count. AMSAT Field Day rules allow one contact per FM repeater to count. This includes the International Space Station, if operational.

AO-51 will be configured to support Field Day operations. The Field Day configuration on AO-51 begins on June 21 to allow stations to test their equipment and antennas at home prior to the event. The satellite will remain in this mode through June 28.

AO-51 June 21 - June 28 Field Day Configuration
FM Repeater, V/U

Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM

FM Repeater, L/U (Subject to interuption for telemetry collection)
Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM

The full text of the AMSAT Satellite Field Day Rules can be found on-line at: http://www.amsat.org/amsat-new/awards/amsatfd.php

The Satellite Summary Sheet can be found on this web page also. This format should be used for submission of the AMSAT Field Day competition and be received by KK5DO (email or postal mail) by 11:59 P.M. CDT, Monday, July 13, 2009. The preferred method for submitting your log is via e-mail to kk5do@amsat.org or kk5do@arrl.net.

You may also use the postal service but give plenty of time for your results to arrive by the submission date. Add photographs or other interesting information so that can be used an article for the Journal.

If mailing your submission, the address is:

Bruce Paige, KK5DO
Director of Awards and Contests
PO Box 310
Alief, TX 77411-0310.

Certificates will be awarded to the first-place, second, and third place emergency power/portable stations at the AMSAT General Meeting and Space Symposium in October, 2009.

[ANS thanks the AO-51 Operations Team and Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-165.03
Treat Yourself to an Amateur Radio Conference

AMSAT News Service Bulletin 165.03
>From AMSAT HQ SILVER SPRING, MD.
June 14, 2009
To All RADIO AMATEURS
BID: $ANS-165.03

AMSAT 2009 SPACE SYMPOSIUM AND ANNUAL GENERAL MEETING

Now is the time for you to prepare your papers and presentations for the 2009 AMSAT Annual Meeting and Space Symposium to be held October 9 - 11 at the Four Points Sheraton Hotel at the Baltimore Washington Airport.

Proposals for papers, symposium presentations and poster presentations are invited on any topic of interest to the amateur satellite community. We request a tentative title of your presentation as soon

as possible, with final copy submitted by September 1, 2009 for inclusion in the printed proceedings.

Abstracts and papers should be sent to Dan Schultz, N8FGV, at n8fgv@amsat.org.

CENTRAL STATES VHF SOCIETY ANNUAL CONFERENCE

The Central States VHF Society (CSVHFS) is soliciting presentations and poster displays for their 43rd Annual Conference this summer, July 23-26 at the Holiday Inn in Elk Grove Village, Illinois. Find more information on-line at: http://www.csvhfs.org/conference/index.html.

Possible presentation topics on all aspects of weak-signal VHF and above include, but are not limited to, antennas (modeling, design, arrays and control), equipment construction, propagation, test gear, regulatory issues, operating, digital signal processing and software defined radio.

AMSAT-UK 2009 SPACE COLLOQIUM

The AMSAT-UK Colloquium will be held July 25 and July 26 at the the Holiday Inn Hotel in Guildford. This new site is very close to the Surrey University where the event has been held previously. The 2009 AMSAT Colloquium will now commence at 10am on Saturday July 25th and close at approximately 4.30 pm on Sunday.

ARRL AND TAPR DIGITAL COMMUNICATIONS CONFERENCE

Technical papers are solicited for presentation at the 28th Annual ARRL and TAPR Digital Communications Conference to be held September 25-27, 2009 in Chicago, Illinois. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2009. Please send papers to: Maty Weinberg, ARRL, 225 Main St., Newington, CT 06111 - or you can make your submission via e-mail to: maty@arrl.org

MUD - MICROWAVE UPDATE 2009

Microwave Update 2009 will be held on Friday, October 23 through Saturday, October 24 in Dallas, Texas. Technical papers are currently being solicited for publication in the ARRL's Microwave Update 2009 Conference Proceedings. You do not need to attend the conference nor present your paper to have it published.

Strong preference will be given to original work and to those papers that are written and formatted specifically for publication rather than as a visual presentation aid. As this is a microwave conference papers must be on topics for frequencies above 900 MHz. Examples of such topics include microwave theory, construction, communication, deployment, propagation, antennas, activity, transmitters, receivers, components, amplifiers, communication modes, LASER, software design tools, and

practical experiences.

If you are interested in submitting a paper please contact Kent Britain, at wa5vjb (at) flash (dot) net for additional information. The deadline for papers is Monday, August 31, 2008. More information is available on-line at: http://www.microwaveupdate.org/

[ANS thanks AMSAT-NA, AMSAT-UK, ARRL, CSVHFS, and MUD for the above information]

/EX

SB SAT @ AMSAT $ANS-165.04
7000 KM Contact Via AO-7 Mode B - Brazil to Belgium

AMSAT News Service Bulletin 165.04
>From AMSAT HQ SILVER SPRING, MD.
June 14, 2009
To All RADIO AMATEURS
BID: $ANS-165.04

ANS-158 carried a brief report of a successful AO-7 Mode B contact between Piraja, PS8RF in Brazil and Jean-Jacques, ON7EQ in Belgium. Since last week's report, additional information has been received on how they accomplished their 4736 mile (7622 KM) contact.

Jean-Jacques wrote, "As the theoretical window between both stations only lasts about 1 minute, 30 seconds, careful preparation was required for selection of the optimal window and calculation of doppler shifts both ways. The effective contact was only possible during about 20 seconds, just enough to exchange reports, while both stations met on the transponder within an offset of 500 Hz of calculated frequencies."

Well done and congratulations, gents! PS8RF has posted a video of the Satellite DX event at: http://www.youtube.com/watch?v=ggNmQqxARWY.

[ANS thanks Jean-Jacques, ON7EQ and Piraja, PS8RF for the above information.]

/EX

SB SAT @ AMSAT $ANS-165.05
Satellite Shorts From All Over

AMSAT News Service Bulletin 165.05
>From AMSAT HQ SILVER SPRING, MD.
June 14, 2009
To All RADIO AMATEURS
BID: $ANS-165.05

+ AMSAT received the sad news that Robert Kohli, VU2MKP, well known to many AO-40 operators and AMSAT-India life member has become a silent key. Ham radio has lost a great operator who guided many hams and was a source of inspiration to many of us.

+ The total number of ARISS ISS to earth school contacts has now reached 443. The complete listing of all scheduled school contacts, and questions, other ISS related websites, IRLP and Echolink websites can be found on-line at:
http://www.amsat.org/amsat/ariss/news/arissnews.rtf

+ Franco, HB9OAB will activate CN2AB on VO-52 from Morocco between June 27 through July 20, 2009. Info at: http://www.qrz.com/cn2ab

+ Hams like science ... a BBC produced video of the Four Seasons of Titan: Weather & Climate Change on Saturn's Largest Moon can be viewed on-line at: http://tinyurl.com/mroemf

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that please keep in mind in ancient Rome, deli workers were told that they could eat anything they wanted during the lunch hour. Anything, that is except the smoked salmon. Thus were created the world's first anti-lox breaks.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

60. New book... with satellite stories

Newsgroup: rec.radio.amateur.space
Date: 2009-06-14 11:12:53 UTC
From: "bill.meara@gmail.com" <bill.meara@gmail.com>
Message-ID: <44de711c-89fd-49e9-9546-48a02376edf7@w3g2000yqf.googlegroups.com>
Source record: 609

Lots of satellite adventures in the new book -- tales of MIR, Shuttle contacts, AO-21, RS-12, RS-10, PC-Sat, ISS and more...

SolderSmoke -- A Global Adventure in Radio Electronics
From Crystal Radios to Podcast MP3s
With Occasional Forays into Astronomy, Kite Aerial Photography, and Model Rocketry

SolderSmoke is the story of a secret, round-the-world, after-hours life in electronics. Bill Meara started out as a normal kid, but around the age of 12 he got interested in radio... To make matters worse, when he got older he became a diplomat. In all of the places he has lived, his hobby caused him to seek out like-minded radio fiends, to stay up late into the night working on strange projects, and to build embarrassingly large antennas above innocent foreign neighborhoods. SolderSmoke takes you into the world of an expatriate geek. It is a technical memoir filled with funny stories and with serious descriptions of Bill's struggles to truly understand the theory behind the equipment that he built.

My intention was to produce a book that is both fun and useful. The memoir part of the book is about my life as electronics-addicted diplomat. But this is more than a memoir: portions of each chapter describe my struggles to really understand the theory behind the circuits that I was building. Throughout, I try to lace the text with inspirational descriptions of the fraternal, cooperative, international aspects of ham radio, of what we call "The International Brotherhood of Electronic Wizards." In short, its the kind of book that a techie would like to take to the beach.

Here is the web site -- it has the cover photo and a preview of the first chapter.

http://www.lulu.com/content/paperback-book/soldersmoke/6743576

61. Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-16 22:57:38 UTC
From: Robert Clark <rgregoryclark@yahoo.com>
Message-ID: <609fd5d7-b15e-4bf1-a5c5-60c4c68cc367@e21g2000yqb.googlegroups.com>
Source record: 610
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On another forum there was debate about whether the requirement of
"near real time" high definition video transmissions was achievable
for a such a low-cost mission.
It would certainly be doable if the receiving antennas on Earth were
the large radio antennas used for space communications with
interplanetary probes or those radio antennas used for radio
astronomy. This is evidenced by the fact that the Kaguya(Selene) lunar
orbiter mission was able to send high definition video to a large
receiving dish radio antenna. And also by the fact that DirecTV sends
high definition video to only 2 foot size antennas from geosynchronous
orbit; so 10 times larger antennas would be able to receive such
signals from a 10 times larger distance at the Moon.
However, I was wondering if it would be possible to detect this using
amateur sized equipment at such a large distance. Usually for
receiving high data rates you used transmissions at very high
frequencies, as higher frequencies can carry more data. For instance
both Kaguya and DirecTV transmit the high def video at gigahertz
frequencies.
However, for the system I'm imaging I'm thinking of using much lower
frequencies, and necessarily longer wavelengths. What I wanted to do
is transmit at decametric wavelengths. High data transmissions rates
would be achieved by making it be pulsed in an on-off fashion at high
intensity but at a rapid rate.
On that other forum the data rate required for high def TV was given
as 256,000 bits per second. So I wanted to make these transmissions be
pulsed at this rapid rate at wavelengths of a few tens's of meters.
My decametric wavelength requirement was because of the fact that
high schools and universities have programs for detecting radio
emissions from Jupiter at these wavelengths:

NASA's Radio JOVE Project.
http://radiojove.gsfc.nasa.gov/

The Discovery of Jupiter's Radio Emissions.
How a chance discovery opened up the field of Jovian radio studies.
by Dr. Leonard N. Garcia
http://radiojove.gsfc.nasa.gov/library/sci_briefs/discovery.html

These school and university receiving antennas on Earth consist of
dozens to hundreds of vertical dipoles of lengths at the meters scale
to correspond to the radio wavelengths. Some questions I had: how
intense would the pulse have to be on the Moon to be detectable from
the Moon above background noise for a detector on Earth of say a few
dozen dipoles? Could this be done for the transmitter of power of say

a few hundred watts for a low cost, low weight lander mission? Could
the transmitter antenna on the moon be only a few meters size for the
low weight requirement?
A secondary purpose I had in mind was a pet project of mine involving
linking these many school receivers to form a global telescope at
decametric wavelengths:

From: rgcl...@my-deja.com (Robert Clark)
Date: 23 May 2001 11:15:06 -0700
Subject: Will amateur radio astronomers be the first to directly
detect extrasolar planets?
Newsgroups: rec.radio.amateur.space, rec.radio.amateur.antenna,
sci.astro, sci.astro.seti, sci.space.policy
http://groups.google.com/group/sci.astro.seti/browse_frm/thread/c0018b68662c14e9

The long wavelengths should make the requirements for accurate
distance information and timing synchrony between the separate
detectors easy to manage even for amateur systems. Using this method
might make the detection achievable even if the power or transmitting
antenna size requirements are not practical for a low cost, low weight
lander on the Moon for an individual detector on Earth.
The recent achievement of real-time very long baseline interferometry
should make it possible to integrate these separate detector signals
in real-time as well:

Astronomers Demonstrate a Global Internet Telescope.
Date Released: Friday, October 08, 2004
Source: Jodrell Bank Observatory
http://www.spaceref.com/news/viewpr.html?pid=15251

Bob Clark

62. Re: Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-17 01:43:54 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <h19hoo$i04$1@news.jpl.nasa.gov>
Source record: 611
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

Robert Clark wrote:
> On another forum there was debate about whether the requirement of
> "near real time" high definition video transmissions was achievable
> for a such a low-cost mission.
> It would certainly be doable if the receiving antennas on Earth were
> the large radio antennas used for space communications with
> interplanetary probes or those radio antennas used for radio
> astronomy. This is evidenced by the fact that the Kaguya(Selene) lunar
> orbiter mission was able to send high definition video to a large
> receiving dish radio antenna. And also by the fact that DirecTV sends
> high definition video to only 2 foot size antennas from geosynchronous
> orbit; so 10 times larger antennas would be able to receive such
> signals from a 10 times larger distance at the Moon.

Don't forget that DirecTV radiates a LOT more power than a typical deep space probe. AND they often have a higher gain antenna. A geosync relay satellite might have 96 TWTAs, each several hundred watts, on it, feeding a very clever multiple feed dish which is many meters in diameter (look at Thuraya, for instance).

> However, I was wondering if it would be possible to detect this using
> amateur sized equipment at such a large distance. Usually for
> receiving high data rates you used transmissions at very high
> frequencies, as higher frequencies can carry more data. For instance
> both Kaguya and DirecTV transmit the high def video at gigahertz
> frequencies.

There's a moderately active Amateur DSN group that listens for things like Chandrayaan or MRO using relatively small dishes (1-2 meters).

The choice of higher frequencies isn't because it carries more data. It's because a higher frequency allows you to get more gain with the same physical antenna size. Double the frequency, and your antenna gain goes up by a factor of 4, at both ends of the link.. a total of 12 dB improvement in SNR, for the same transmitter power and receiver noise figure. And, there's more spectrum available up high.

> However, for the system I'm imaging I'm thinking of using much lower
> frequencies, and necessarily longer wavelengths. What I wanted to do
> is transmit at decametric wavelengths. High data transmissions rates
> would be achieved by making it be pulsed in an on-off fashion at high
> intensity but at a rapid rate.

How high a data rate? If you're at 30 MHz (10m lambda), you're not going to be pulsing at 10 MHz, or you're going to be generating a signal

that extends from 20 to 40 MHz (and then some). You need a low symbol rate with lots of bits per symbol, which in turn means you'll need lots of SNR.

> On that other forum the data rate required for high def TV was given
> as 256,000 bits per second.

HDTV, as carried on broadcast TV, is 19.8 Mbps. If you're happy with a lower frame rate, or can do a lot of frame/frame compression, you can get it lower.

So I wanted to make these transmissions be
> pulsed at this rapid rate at wavelengths of a few tens's of meters.
> My decametric wavelength requirement was because of the fact that
> high schools and universities have programs for detecting radio
> emissions from Jupiter at these wavelengths:
>
> NASA's Radio JOVE Project.
> http://radiojove.gsfc.nasa.gov/

>
> These school and university receiving antennas on Earth consist of
> dozens to hundreds of vertical dipoles of lengths at the meters scale
> to correspond to the radio wavelengths.

Any one school only has a couple dipoles up.. the gain is quite low.

Some questions I had: how
> intense would the pulse have to be on the Moon to be detectable from
> the Moon above background noise for a detector on Earth of say a few
> dozen dipoles? Could this be done for the transmitter of power of say
> a few hundred watts for a low cost, low weight lander mission? Could
> the transmitter antenna on the moon be only a few meters size for the
> low weight requirement?

How technical do you want to get? There's a book about space telecommunications system design available for downloading from JPL (http://descanso.jpl.nasa.gov/ somewhere on that site)

Here's some basic numbers you'll need:

Free space path loss in dB = 32.44 + 20*log10(distance in km) + 20 *log10(frequency in MHz)
That's between isotropic antennas (0dBi)..

Antenna beamwidth is 70 degrees/ (diameter of antenna in wavelengths)
Antenna gain is 27000/(beamwidth^2)

A typical receiver noise figure (after figuring in losses in coax/waveguide, etc.) is probably 3dB.

kTB noise is -174 dBm/Hertz * 10*log10(bandwidth in Hz)

> A secondary purpose I had in mind was a pet project of mine involving
> linking these many school receivers to form a global telescope at
> decametric wavelengths:

Coherent combining would be a challenge, because of ionospheric
variability at HF, not to mention the other challenges.

Look up LOFAR or the SKA (Square Kilometer Array) for a fairly well
funded scheme.

63. Re: Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-17 03:06:44 UTC
From: tom <news4792@taring.org>
Message-ID: <4a385dbf$0$18863$8046368a@newsreader.iphouse.net>
Source record: 612
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

Jim Lux wrote:
>
> Don't forget that DirecTV radiates a LOT more power than a typical deep
> space probe. AND they often have a higher gain antenna. A geosync relay
> satellite might have 96 TWTAs, each several hundred watts, on it,
> feeding a very clever multiple feed dish which is many meters in
> diameter (look at Thuraya, for instance).
>

Wow. 96 TWTs with several hundred watts each. From a satellite. And
what's the efficiency?

So these are powered by what? Small nuclear reactors?

Certainly not solar panels.

tom
K0TAR

64. Re: Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-17 04:10:20 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <N0_ZI.6006$x_6.758@newsfe09.iad>
Source record: 613
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:h19hoo$i04$1@news.jpl.nasa.gov...

Snip >

> HDTV, as carried on broadcast TV, is 19.8 Mbps. If you're happy with a
> lower frame rate, or can do a lot of frame/frame compression, you can
> get it lower.

Yes. OP said "near real time," which I take to mean "OK to drop some frames," like the satellite video phones the reporters use from the boondocks. Thus, high-def can be confined to a lot lower bandwidth if you don't mind seeing compression artifacts as each frame is being built on the screen.

I have a contemporary example: KABC-DT, Channel 7 Los Angeles is high-def on 7-1 AND high-def on 7-2, with a service called Living Well. See http://livingwell.tv/Welcome.html.

Living Well is apparently getting a skimpy bitshare, as compression artifacts are obvious, especially on scene changes and motion, whereas ABC programming on 7-1 is just beautiful. Living Well is very good, sharp HD, but you can see details being "painted in" for a quarter-second after a scene change.

"Sal"

65. Re: Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-17 04:19:13 UTC
From: Jim Lux <jimlux@earthlink.net>
Message-ID: <731a24f8-4853-48e3-8189-b1f56c3920e9@k8g2000yqn.googlegroups.com>
Source record: 614
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Jun 16, 8:06 pm, tom <news4...@taring.org> wrote:
> Jim Lux wrote:
>
> > > Don't forget that DirecTV radiates a LOT more power than a typical deep
> > > space probe. AND they often have a higher gain antenna. A geosync relay
> > > satellite might have 96 TWTAs, each several hundred watts, on it,
> > > feeding a very clever multiple feed dish which is many meters in
> > > diameter (look at Thuraya, for instance).
>
> > Wow. 96 TWTs with several hundred watts each. From a satellite. And
> > what's the efficiency?
>
> > So these are powered by what? Small nuclear reactors?
>
> > Certainly not solar panels.
>
> > tom
> > K0TAR

Not all will necessarily be on at the same time.
Typical narrow band coupled cavity TWTAs can get over 50% efficiency
(DC in to RF out)
Yes Solar Panels..10kW would not be unusual.

See, e.g., http://en.wikipedia.org/wiki/ASTRIUM_E3000 ... 14 kW of
power from 45 m^2 of solar panels and 4500kg of satellite..

This is so far beyond what is used in the scientific space program
it's mind boggling. But, hey, out of the $1-2B cost, the TWTAs are
probably only 5-10% of the total, and there are definitely quantity
discounts.

66. Re: Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-17 06:14:05 UTC
From: No Spam <nospam@nospam.com>
Message-ID: <h1a1jd$4s2$1@news.albasani.net>
Source record: 615
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Tue, 16 Jun 2009 15:57:38 -0700, Robert Clark wrote:

> On another forum there was debate about whether the requirement of "near
> real time" high definition video transmissions was achievable for a such
> a low-cost mission.
> It would certainly be doable if the receiving antennas on Earth were
> the large radio antennas used for space communications with
> interplanetary probes or those radio antennas used for radio astronomy.
> This is evidenced by the fact that the Kaguya(Selene) lunar orbiter
> mission was able to send high definition video to a large receiving dish
> radio antenna. And also by the fact that DirecTV sends high definition
> video to only 2 foot size antennas from geosynchronous orbit; so 10
> times larger antennas would be able to receive such signals from a 10
> times larger distance at the Moon.
> However, I was wondering if it would be possible to detect this using
> amateur sized equipment at such a large distance. Usually for receiving
> high data rates you used transmissions at very high frequencies, as
> higher frequencies can carry more data. For instance both Kaguya and
> DirecTV transmit the high def video at gigahertz frequencies.
> However, for the system I'm imaging I'm thinking of using much lower
> frequencies, and necessarily longer wavelengths. What I wanted to do is
> transmit at decametric wavelengths. High data transmissions rates would
> be achieved by making it be pulsed in an on-off fashion at high
> intensity but at a rapid rate.
> On that other forum the data rate required for high def TV was given
> as 256,000 bits per second. So I wanted to make these transmissions be
> pulsed at this rapid rate at wavelengths of a few tens's of meters.
> My decametric wavelength requirement was because of the fact that
> high schools and universities have programs for detecting radio
> emissions from Jupiter at these wavelengths:
>
> NASA's Radio JOVE Project.
> http://radiojove.gsfc.nasa.gov/
>
> The Discovery of Jupiter's Radio Emissions. How a chance discovery
> opened up the field of Jovian radio studies. by Dr. Leonard N. Garcia
> http://radiojove.gsfc.nasa.gov/library/sci_briefs/discovery.html
>
> These school and university receiving antennas on Earth consist of
> dozens to hundreds of vertical dipoles of lengths at the meters scale to
> correspond to the radio wavelengths. Some questions I had: how intense
> would the pulse have to be on the Moon to be detectable from the Moon
> above background noise for a detector on Earth of say a few dozen

> dipoles? Could this be done for the transmitter of power of say a few
> hundred watts for a low cost, low weight lander mission? Could the
> transmitter antenna on the moon be only a few meters size for the low
> weight requirement?
> A secondary purpose I had in mind was a pet project of mine involving
> linking these many school receivers to form a global telescope at
> decametric wavelengths:
>
> From: rgcl...@my-deja.com (Robert Clark) Date: 23 May 2001 11:15:06
> -0700
> Subject: Will amateur radio astronomers be the first to directly detect
> extrasolar planets?
> Newsgroups: rec.radio.amateur.space, rec.radio.amateur.antenna,
> sci.astro, sci.astro.seti, sci.space.policy
> http://groups.google.com/group/sci.astro.seti/browse_frm/thread/
c0018b68662c14e9
>
> The long wavelengths should make the requirements for accurate
> distance information and timing synchrony between the separate detectors
> easy to manage even for amateur systems. Using this method might make
> the detection achievable even if the power or transmitting antenna size
> requirements are not practical for a low cost, low weight lander on the
> Moon for an individual detector on Earth.
> The recent achievement of real-time very long baseline interferometry
> should make it possible to integrate these separate detector signals in
> real-time as well:
>
> Astronomers Demonstrate a Global Internet Telescope. Date Released:
> Friday, October 08, 2004 Source: Jodrell Bank Observatory
> http://www.spaceref.com/news/viewpr.html?pid=15251
>

You will never get uncompressed HD video transmitted from the lunar surface. And really, there is no need for it if the compression is handled right. Only a few people I know can do that part.

Since the image is mostly repetitive, a low bitrate can be achieved which should allow for a very good signal level path budget. this would make for a higher energy per bit and a more reasonable earth station within the budget of amateurs. (if thats the goal) To achieve a very low bitrate, such things as Pre/post-distortion to utilize less bits, (black gamas) using extremely long GOP structures and since the action of the video is extremely slow and repetitive, a slow frame rate such as 1fps. These can be counteracted at the receive station with software without effecting the total image resolution.

The image resolution is where the wow factor is anyway! :-)

My *guess* is that whomever would put a spacecraft on the lunar surface would only have one high speed datapath back. The HD transport stream would be muxed in with the other data elements of the spacecraft on a

transmission system without consideration for amateur reception. Perhaps encrypted if a commercial entity is paying for the broadcast rights.

67. Re: Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-17 13:31:42 UTC
From: Jim Lux <jimlux@earthlink.net>
Message-ID: <a8aced6a-cf3e-4664-8bc3-5e59d701c894@c9g2000yqm.googlegroups.com>
Source record: 616
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti

> Yes. OP said "near real time," which I take to mean "OK to drop some
> frames," like the satellite video phones the reporters use from the
> boondocks. Thus, high-def can be confined to a lot lower bandwidth if you
> don't mind seeing compression artifacts as each frame is being built on the
> screen.
>
> I have a contemporary example: KABC-DT, Channel 7 Los Angeles is high-def
> on 7-1 AND high-def on 7-2, with a service called Living Well.
 Seehttp://livingwell.tv/Welcome.html.
>
> Living Well is apparently getting a skimpy bitshare, as compression
> artifacts are obvious, especially on scene changes and motion, whereas ABC
> programming on 7-1 is just beautiful. Living Well is very good, sharp HD,
> but you can see details being "painted in" for a quarter-second after a
> scene change.
>

There's a fairly complex trade. For a lunar mission, the scene is
going to be pretty static, just shifted. (not like there's a baskeball
team doing a fast break in the field of view), so it should compress
well, given a suitable algorithm.

The challenge is that compression (especially good compression) takes
computational power. So you have a tradeoff: do you spend you joules
on compressing the images and radiate less RF energy, or do you
compress less, and use a bigger power amp. There's also a mass
tradeoff.. big amp or big antenna. The big antenna needs more
accurate pointing, which increases complexity. Or the trade of
frequency selection, higher frequency means more antenna gain, but
usually lower efficiency in the PA and higher NF in the receiver end,
as well as higher probabiliity of weather related fading.

And even there, because Moore's law means that semiconductor
technology is always advancing, the tradespace is shifting towards
more processing (because it gets cheaper in size, weight, power, while
power amps are pretty much at the physics limits)

This is, of course, "rocket science".. or more properly, spacecraft
system engineering. It's straightforward, for the most part, but non-
trivial. Pick your requirements, define the tradespace(s), try
configurations and see what happens.

68. Re: Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-19 12:00:31 UTC
From: Robert Clark <rgregoryclark@yahoo.com>
Message-ID: <50c8909e-6335-4931-b98f-5610e83209e3@v4g2000vba.googlegroups.com>
Source record: 617
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Jun 17, 11:32 am, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> Jim Lux wrote:
> >> Yes. OP said "near real time," which I take to mean "OK to drop some
> >> frames," like the satellite video phones the reporters use from the
> >> boondocks. Thus, high-def can be confined to a lot lower bandwidth if you
> >> don't mind seeing compression artifacts as each frame is being built on the
> >> screen.
>
> Here's a back of the envelope link budget for a 500E3 km link carrying 1
> Mbps
>
> Let's assume 2GHz for the working frequency (not necessarily a good
> choice, but somewhere to start)
>
> Free Space Path Loss from Moon to earth, between isotropic antennas =
> 32.44 + 20*log10(500E3) + 20*log10(2E3) = 32.44 + 114 + 66 = about 212 dB
>
> Assume an antenna 2m in diameter at one end (moon end)
> lambda for 2GHz is 15cm, so the antenna is 13 wavelengths in diameter
> Beamwidth will be about 70/13 = 5 degrees.. OK, because Earth is 2
> degrees wide from the moon, so you can just point at the middle of the
> visible earth.
>
> Assume an antenna 10m in diameter at the earth end. Beamwidth will be 1
> degree, twice the visible lunar disc size, so you can just point at the
> moon, generally.
>
> Gains of antennas
> 2m @ 2GHz = 30dB
> 10m @ 2GHz = 44dB
>
> Preceived at Earth = Ptransmitted +30 - 212 +44dB = Ptransmit -138dB.
>
> Assume transmitting with 10 Watts or +40dBm..
> Prec = -100dBm
>
> Now, let's look at the receiver:
> Power Spectral density of Noise is kT+NF.. kT is -174dBm/Hz and a decent
> NF might be 2dB (allowing for some plumbing losses, etc.
>
> -172 dBm/Hz
>
> Eb (energy/Bit) = -100dBm -60dB (1Mbps) = -160dBmJ

>
> So, Eb/No is about +12dB... If you allow 2dB for implementation loss,
> that gets you to 10dB, which will get you a BER of 1E-6, which isn't
> terrible. Coding will improve it, etc.
>
> Take home message:
>
> 10W at 2Ghz with reasonably sized antennas at moon and earth can carry 1
> Mbps.
>
> Scales linearly with data rate.. You want 10Mbps, you need 100W. Or
> bigger antennas.

Thanks for the info. This at least should be doable with receiving
antennas operated by universities.

Bob Clark

69. Re: Detecting the high def TV for the Google Lunar X Prize.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-19 18:20:03 UTC
From: Robert Clark <rgregoryclark@yahoo.com>
Message-ID: <8ae6e568-4378-4858-972c-659d821bb746@j20g2000vbp.googlegroups.com>
Source record: 618
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Jun 16, 6:57 pm, Robert Clark <rgregorycl...@yahoo.com> wrote:
> On another forum there was debate about whether the requirement of
> "near real time" high definition video transmissions was achievable
> for a such a low-cost mission.
> It would certainly be doable if the receiving antennas on Earth were
> the large radio antennas used for space communications with
> interplanetary probes or those radio antennas used for radio
> astronomy. This is evidenced by the fact that the Kaguya(Selene) lunar
> orbiter mission was able to send high definition video to a large
> receiving dish radio antenna. And also by the fact that DirecTV sends
> high definition video to only 2 foot size antennas from geosynchronous
> orbit; so 10 times larger antennas would be able to receive such
> signals from a 10 times larger distance at the Moon.
> However, I was wondering if it would be possible to detect this using
> amateur sized equipment at such a large distance. Usually for
> receiving high data rates you used transmissions at very high
> frequencies, as higher frequencies can carry more data. For instance
> both Kaguya and DirecTV transmit the high def video at gigahertz
> frequencies.
> However, for the system I'm imaging I'm thinking of using much lower
> frequencies, and necessarily longer wavelengths. What I wanted to do
> is transmit at decametric wavelengths. High data transmissions rates
> would be achieved by making it be pulsed in an on-off fashion at high
> intensity but at a rapid rate.
> On that other forum the data rate required for high def TV was given
> as 256,000 bits per second. So I wanted to make these transmissions be
> pulsed at this rapid rate at wavelengths of a few tens's of meters.
> My decametric wavelength requirement was because of the fact that
> high schools and universities have programs for detecting radio
> emissions from Jupiter at these wavelengths:
>
> NASA's Radio JOVE Project.http://radiojove.gsfc.nasa.gov/
>
> The Discovery of Jupiter's Radio Emissions.
> How a chance discovery opened up the field of Jovian radio studies.
> by Dr. Leonard N. Garciahttp://radiojove.gsfc.nasa.gov/library/sci_briefs/discovery.html
>
> These school and university receiving antennas on Earth consist of
> dozens to hundreds of vertical dipoles of lengths at the meters scale
> to correspond to the radio wavelengths. Some questions I had: how
> intense would the pulse have to be on the Moon to be detectable from
> the Moon above background noise for a detector on Earth of say a few
> dozen dipoles? Could this be done for the transmitter of power of say

> a few hundred watts for a low cost, low weight lander mission? Could
> the transmitter antenna on the moon be only a few meters size for the
> low weight requirement?
> A secondary purpose I had in mind was a pet project of mine involving
> linking these many school receivers to form a global telescope at
> decametric wavelengths:
>
> From: rgcl...@my-deja.com (Robert Clark)
> Date: 23 May 2001 11:15:06 -0700
> Subject: Will amateur radio astronomers be the first to directly
> detect extrasolar planets?
> Newsgroups: rec.radio.amateur.space, rec.radio.amateur.antenna,
> sci.astro, sci.astro.seti,
sci.space.policyhttp://groups.google.com/group/sci.astro.seti/browse_frm/thread/c0018...
>
> The long wavelengths should make the requirements for accurate
> distance information and timing synchrony between the separate
> detectors easy to manage even for amateur systems. Using this method
> might make the detection achievable even if the power or transmitting
> antenna size requirements are not practical for a low cost, low weight
> lander on the Moon for an individual detector on Earth.
> The recent achievement of real-time very long baseline interferometry
> should make it possible to integrate these separate detector signals
> in real-time as well:
>
> Astronomers Demonstrate a Global Internet Telescope.
> Date Released: Friday, October 08, 2004
> Source: Jodrell Bank Observatoryhttp://www.spaceref.com/news/viewpr.html?pid=15251
>

In this post I suggested using DirecTV's and other satellite TV
companies receiving dishes for SETI:

Newsgroups: sci.astro.seti, sci.astro, rec.radio.amateur.space,
sci.physics
From: rgregorycl...@yahoo.com (Robert Clark)
Date: 7 Feb 2005 15:07:03 -0800
Subject: Could DirecTV satellite dishes be used for the Square
Kilometer Array - and a more radical proposal[Re: Can DirectTV-type
satellite dishes be used for SETI?]
http://groups.google.com/group/sci.astro.seti/msg/e425e5339227855a

In the discussion in that thread there were mentioned several
problems with that proposal (possibly fixable with some expensive
retrofits) but one big problem is that satellite TV is not designed to
be two-way. Some satellite services are two-way when they are also
used for internet access, but this is a much smaller proportion of the
satellite TV subscribers.
However, instead of using the satellite TV dishes, we could use
individual dipole antennas attached to each house. You would need to
communicate high data rates for the signals detected so you would need

broadband internet access for this.
These dipole antennas as per the Radio JOVE project are just simple vertical wires so could be attached to the house when the installer is connecting the wiring for the broadband. Possibly you could use the same external wiring as for the broadband but that might cause interference with the internet signals.
As shown on the Radio JOVE page the receivers for these dipole antennas are quite simple so would contribute minimally to the cost of installation. You do need accurate positional determination and timing synchrony for each receiving system to do the very long baseline interferometry, but at these decametric wavelengths this would be easy to do with GPS receivers carried by the installers. Over time you could keep the systems in synchrony by timing stamps accessed over the internet.
I suggested before using 10 million dipoles world-wide for detecting Jovian-sized planets close in to their primaries out to perhaps 10 light-years. According to this page, over 16.6 million new broadband internet users came online just in one quarter this year alone, bringing the number of broadband users world-wide to 429 million:

More people worldwide are subscribing to high-speed Internet connections.
China and other Asian countries among the growth leaders.
http://www.nationmultimedia.com/2009/06/17/technology/technology_30105358.php

New broadband subscribers would automatically get the dipole antennas. At the rate of increase of broadband subscribers, it would only take 3 months to reach 10 million separate dipoles. If each installer when setting up a new system, also retrofitted an another existing broadband system, then you could reach the full coverage of all the broadband subscribers dipoles in 6 years.
The number of world-wide broadband subscribers will be 500 million by 2010. At current growth rates it would be 900 million within the 6 years it took to equip each broadband subscriber system with one of the antenna dipoles. This is nearly two orders of magnitude better sensitivity than a 10 million dipole system. You could detect out to 100 light-years, opening up many more stars to the possibility of detection.

Bob Clark

70. WSR-169 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-06-21 13:22:45 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c9f273$54b33000$fe199000$@net>
Source record: 619
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-169.S1
WSR 169 Part 1 06/18/2009

AMSAT NEWS SERVICE BULLETIN 169.S1
FROM AMSAT HQ SILVER SPRING, MD, June 18, 2009
TO ALL RADIO AMATEURS
BID: $ANS-169.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.880 Mhz FM
Downlink: 2401.200 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[06182009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-169.S2
WSR 169 Part 2 06/18/2009

AMSAT NEWS SERVICE BULLETIN 169.S2
FROM AMSAT HQ SILVER SPRING, MD, June 18, 2009
TO ALL RADIO AMATEURS
BID: $ANS-169.S2

CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL

=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]

=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.880 Mhz FM
Downlink: 2401.200 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[06182009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM

145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]

=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL

=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v

BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-169.S3
WSR 169 Part 3 06/18/2009

AMSAT NEWS SERVICE BULLETIN 169.S3
FROM AMSAT HQ SILVER SPRING, MD, June 18, 2009
TO ALL RADIO AMATEURS
BID: $ANS-169.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]

=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-169.S4
WSR 169 Part 4 06/18/2009

AMSAT NEWS SERVICE BULLETIN 169.S4
FROM AMSAT HQ SILVER SPRING, MD, June 18, 2009
TO ALL RADIO AMATEURS
BID: $ANS-169.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

_____
Via the ANS mailing list courtesy of AMSAT-NA
http://amsat.org/mailman/listinfo/ans

71. Detecting the HDTV for the Google Lunar X Prize, applications to the SETI search.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-22 16:07:59 UTC
From: Robert Clark <rgregoryclark@yahoo.com>
Message-ID: <454ccf3d-4e5e-4aa6-8f27-edd6479d5986@j18g2000yql.googlegroups.com>
Source record: 620
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Jun 20, 10:45 am, Jim Lux <jim...@earthlink.net> wrote:
> On Jun 19, 11:20 am, Robert Clark <rgregorycl...@yahoo.com> wrote:
>
> > On Jun 16, 6:57 pm, Robert Clark <rgregorycl...@yahoo.com> wrote:
>
> > > From: rgcl...@my-deja.com (Robert Clark)
> > > Date: 23 May 2001 11:15:06 -0700
> > > Subject: Will amateur radio astronomers be the first to directly
> > > detect extrasolar planets?
> > > Newsgroups: rec.radio.amateur.space, rec.radio.amateur.antenna,
> > > sci.astro, sci.astro.seti,
sci.space.policyhttp://groups.google.com/group/sci.astro.seti/browse_frm/thread/c0018...
>
> > > The long wavelengths should make the requirements for accurate
> > > distance information and timing synchrony between the separate
> > > detectors easy to manage even for amateur systems.
>
> Not easy, not for the precision required.
> You need not only precise time (straightforward), but also precise
> location (not so straightforward)
>
> You're interested in roughly 20MHz, as I recall. Wavelength of 15
> meters. In time, about 45 nanoseconds.
>
> Let's start with a real relaxed requirement, comparable to the mirror
> flatness for a telescope of lambda/14. That means a time knowledge
> of about 3 ns and a position knowledge of 1 meter, in absolute terms.
>
> Typical GPS receivers that have a 1pps output are good to about 20-30
> nanoseconds. Using that to discipline a quartz oscillator, you can do
> a bit better, but it's non trivial to get to the 1-2 ns range.
> Remember, you're also planning on integrating over time, so you have
> to hold that tolerance for a long time.
>
> It would be difficult to determine your position to an absolute
> accuracy of 1 meter, much less the phase center of the antenna (which
> will change as a function of the angle of incidence, quite
> substantially, unless you're putting those dipoles up 100s of feet in
> the air.
>
> Using this method
>

> > > might make the detection achievable even if the power or transmitting
> > > antenna size requirements are not practical for a low cost, low weight
> > > lander on the Moon for an individual detector on Earth.
> > > The recent achievement of real-time very long baseline interferometry
> > > should make it possible to integrate these separate detector signals
> > > in real-time as well:
>
> <snip>
>
> You need to go beyond looking at press releases from radio
> astronomers.
>
> > However, instead of using the satellite TV dishes, we could use
> > individual dipole antennas attached to each house. You would need to
> > communicate high data rates for the signals detected so you would need
> > broadband internet access for this.
> > These dipole antennas as per the Radio JOVE project are just simple
> > vertical wires so could be attached to the house when the installer is
> > connecting the wiring for the broadband. Possibly you could use the
> > same external wiring as for the broadband but that might cause
> > interference with the internet signals.
>
> Radio Jove uses a pair of horizontal dipoles connected together to
> create a single narrower lobe pointing up.
>
> > As shown on the Radio JOVE page the receivers for these dipole
> > antennas are quite simple so would contribute minimally to the cost of
> > installation.
>
> Who's paying, and how minimal? I don't think so.
>
> You do need accurate positional determination and timing
>
> > synchrony for each receiving system to do the very long baseline
> > interferometry, but at these decametric wavelengths this would be easy
> > to do with GPS receivers carried by the installers.
>
> No they can't. You need position accuracy of sub-1 meter accuracy,
> and that isn't achievable by simple handheld devices, like your Garmin
> E-trex, etc. A surveyor using a survey GPS system can get there,
> although absolute position (relative to, say, the center of the earth,
> or some standard datum) to 1 meter would be very challenging.
>
> There's also the not so little problem of tidal bulge. Your position
> changes in absolute (relative to a stellar reference) terms several
> tens of cm. On top of that, tectonic plate movement is on the order of
> several cm/year, which is in the same general ballpark as your
> accuracy requirement.
>
> ...

The NASA Global Differential GPS System.
"The NASA Global Differential GPS (GDGPS) System is a complete, highly accurate, and extremely robust real-time GPS monitoring and augmentation system.
"Employing a large ground network of real-time reference receivers, innovative network architecture, and award-winning real-time data processing software, the GDGPS System provides decimeter (10 cm) positioning accuracy and sub-nanosecond time transfer accuracy anywhere in the world, on the ground, in the air, and in space, independent of local infrastructure."
http://www.gdgps.net/

This would be enough for the positional accuracy at this wavelength. This type of highly accurate receiver would probably have to be used only by the installers as they are likely to be expensive. Perhaps the positional accuracy could be maintained over time by referring to a satellite signal.
The "time transfer" accuracy mentioned apparently does mean the many different sites can be put in time synchrony to within sub-nanosecond precision by reference to the atomic clocks on several GPS satellites at the same time:

Global Positioning System.
2.) Basic concept of GPS
* 2.1 Position calculation introduction
* 2.2 Correcting a GPS receiver's clock
http://en.wikipedia.org/wiki/Global_Positioning_System#Basic_concept_of_GPS

Innovation: GPS Time Transfer.
Using Precise Point Positioning for Clock Comparisons.
Nov 1, 2006
By: François Lahaye, Diego Orgiazzi, Patrizia Tavella, Giancarlo Cerretto.
GPS World
http://www.gpsworld.com/gpsworld/Innovation-GPS-Time-Transfer/ArticleStandard/Article/detail/383189

However, JPL radio astronomer Dr. Dayton Jones responded to my question about the required timing accuracy at such long wavelengths, suggesting it might only have to be only at the ten's of nanoseconds to even microseconds range, depending on the bandwidth being detected:

Newsgroups: rec.radio.amateur.space, rec.radio.amateur.antenna, sci.astro, sci.astro.seti, sci.space.policy
From: rgcl...@my-deja.com (Robert Clark)
Date: 18 Jun 2001 10:26:50 -0700
Subject: Re: Will amateur radio astronomers be the first to directly detect extrasolar planets?
http://groups.google.com/group/sci.astro.seti/msg/8a56d6bc52a09590

Note that with the Radio JOVE system the bandwidth being detected is usually quite small at the tens to hundreds of khz range, as the emissions consist of short pulses. This would only require timing

accuracy at the microsecond range.
For the cost, note that for cable, DSL, satellite, internet and/or TV service typically the receivers, modems, routers, etc are only "rented" where you pay a nominal fee every month. If the cost for the dipole and receivers were in the range of $100 dollars per installation then this could be amortized over the life of that broadband internet system, at say $1 dollar a month or even 50 cents a month.

Bob Clark

72. ANS-172 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-06-23 23:06:03 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001b01c9f457$26ea9650$74bfc2f0$@net>
Source record: 621
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-172

ANS is a free, weekly, news and information service
of AMSAT North America, The Radio Amateur Satellite
Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share
an active interest in designing, building, launching
and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* BOD Nominations
* Field Day Rules and SAT status
* More AO-7 DX Reported
* Rooms Filling Up for AMSAT-UK Colloquium
* ARISS Schedule

SB SAT @ AMSAT $ANS-172.1
BOD Nominations

AMSAT News Service Bulletin 172.1
>From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-172.1

Per the AMSAT bylaws, those individuals nominated
to serve a 2 year term for the AMSAT Board of Directors are:

Barry Baines, WD4ASW
Alan Biddle, WA4SCA
Drew Glasbrenner, KO4MA
Tony Monteiro, AA2TX
Bill Ress, N6GHZ
--
Ballots should be in the mail by July 15th.

ALSO...To All: Please remember that AMSAT
has one paid employee. So, if your order is
not filled immediately, please be patient.

73- Martha

[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-172.2
Field Day Rules and SAT status

AMSAT News Service Bulletin 172.2
From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-172.2

AMSAT's Satellite Field Day is held concurrently with the
annual ARRL Field Day emergency preparedness exercise.
This year the event will take place between 1800 UTC on
Saturday June 27, 2009 through 2100 UTC on Sunday June 28, 2009.

AMSAT encourages stations to prepare for operations on
all of the satellite modes - analog, FM, and digital.
The congestion on FM LEO satellites has become so intense
based on experience in prior years that we request to
limit your use to one-QSO-per-FM-satellite. The ARRL rules
only allow one contact per FM satellite to count. AMSAT
Field Day rules allow one contact per FM repeater to count.
This includes the International Space Station, if operational.

AO-51 will be configured to support Field Day operations.
The Field Day configuration on AO-51 begins on June 21
to allow stations to test their equipment and antennas
at home prior to the event. The satellite will remain
in this mode through June 28.

AO-51 June 21 - June 28 Field Day Configuration
FM Repeater, V/U
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM

FM Repeater, L/U (Subject to interuption for
telemetry collection)
Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM

The full text of the AMSAT Satellite Field Day Rules can be
found on-line at:
http://www.amsat.org/amsat-new/awards/amsatfd.php

The Satellite Summary Sheet can be found on this web page also.
This format should be used for submission of the AMSAT Field
Day competition and be received by KK5DO (email or postal mail)
by 11:59 P.M. CDT, Monday, July 13, 2009. The preferred method
for submitting your log is via e-mail to kk5do@amsat.org or
kk5do@arrl.net.

You may also use the postal service but give plenty of time
for your results to arrive by the submission date. Add
photographs or other interesting information so that
can be used an article for the Journal.

If mailing your submission, the address is:

Bruce Paige, KK5DO
Director of Awards and Contests
PO Box 310
Alief, TX 77411-0310.

Certificates will be awarded to the first-place, second,
and third place emergency power/portable stations at the
AMSAT General Meeting and Space Symposium in October,
2009.

[ANS thanks Bruce, KK5DO, for the above information]
/EX

SB SAT @ AMSAT $ANS-172.3
More AO-7 DX Reported

AMSAT News Service Bulletin 172.3
From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-172.3

Piraja, PS8RF is pleased to report additional DX
via AO-7 following on to his successful
Brazil-to-Belgium contact with Jean-Jacques,
ON7EQ as reported in ANS-165. This week Piraja
was able to copy the CW signals of Andre, ZS2BK
showing that a Brazil to South Africa contact is
possible.

This contact is also close to the operational
limits of AO-7. The distance between the two
stations is 4805 miles (7904 KM). Piraja says
he can also copy F2IL on many AO-7 passes. He
has posted two videos on the web recording
these contacts:

PS8RF copy ZS2BK:
http://www.youtube.com/watch?v=8JUyIIi0s4I

PS8RF - ON7EQ contact:
http://www.youtube.com/watch?v=ggNmQqxARWY

[ANS thanks Piraja, PS8RF for the above information]

/EX

SB SAT @ AMSAT $ANS-172.4
Rooms Filling Up for AMSAT-UK Colloquium

AMSAT News Service Bulletin 172.4
From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-172.4

Rooms Filling Up for AMSAT-UK Colloquium

AMSAT-UK Hon Sec Jim Heck, G3WGM posted a
reminder to all plan- ning to the attend
the AMSAT-UK Colloquium, "If you are considering
attending the AMSAT-UK Colloquium at the
Holiday Inn, Guildford, UK on 25/26 July,
you should be booking soon. The hotel will only
hold rooms for us until Fri 3 July, after that
date, you may find that there are no more
rooms available."

Also please note that so far more than 50% of
people attending have booked in for the Friday
Night before the Colloquium, and the hotel
tells me that they are now getting quite full
on this night. So PLEASE BOOK EARLY to avoid
disappointment."

Full booking details, including prices are at:
http://www.uk.amsat.org/content/view/25/49/

The phone number of the hotel is +44 (0) 1483 784444
and their email address is meetings-guildford@ihg.com.
Please quote reference R0F (That's R zero F) when booking.

[ANS thanks Jim Heck, G3WGM for the above information]

/EX

SB SAT @ AMSAT $ANS-172.5
ARISS Schedule

AMSAT News Service Bulletin 172.5
From AMSAT HQ SILVER SPRING, MD.
June 15, 2009
To All RADIO AMATEURS
BID: $ANS-172.5

1. ARISS Contact with Tongfu Primary School, China

Youth attending Tongfu Road No. 1 Primary School in Guangzhou,
Quangdong, P.R. China experienced an Amateur Radio on the
International Space Station (ARISS) contact on Thursday,
June 11. Astronaut Michael Barratt, KD5MIJ answered 19
questions put to him by the students as an audience of

approximately 465 people looked on. Extensive media coverage included seven television stations, three radio stations and ten newspapers.

2. Successful ARISS Contact with Italian School

On Friday, June 12, children from several schools in L'Aquila, Abruzzo, Italy took part in an Amateur Radio on the International Space Station (ARISS) contact. Approximately 200 students and guests, including European Space Agency (ESA) and Agenzia Spaziale Italiana (ASI) representatives, attended the event. ESA astronaut Samantha Cristoforetti gave presentations on ISS missions and ESA/ASI activities. Astronaut Frank DeWinne, ON1DWN answered 13 questions on the first pass and another 7 questions on the following pass. Many television stations, including CANALE 5 and SKY, radio stations and newspapers provided media coverage. Internet video streaming had more than 6,500 connections.

3. Belgian Students Spoke with Frank De Winne
An Amateur Radio operator on the International Space Station (ARISS) contact took place on Friday, June 12 between Vrije
Basisschool Terbank-Egenhoven in Heverlee, Belgium and Frank DeWinne ON1DWN on the ISS. Telebridge station ON4ISS
in Belgium assisted with the contact. Twenty-two questions
were answered during the nine minute pass, delighting the audience of 400 children, parents and guests. Four television stations and two radio broadcast stations with national and regional audiences covered the event. During the main evening news, a detailed report on telebridge ground station ON4ISS was broadcast by the national television service.

4. Astronaut Training Status

Astronaut Doug Wheelock passed his amateur radio licensing exam and was issued the callsign KF5BOC. He is scheduled to be part of Expedition 24 along with Shannon Walker, KD5DXB and Aleksandr Skvortsov.

On June 9, Wheelock also received Amateur Radio on the International Space Station (ARISS) training on basic radio operations.

5. Australia Journalist Takes Interest in ARISS

A local journalist in Kingston, Australia has taken an interest in Amateur Radio on the International Space Station (ARISS) and given great publicity to the program over the past three years. To view her latest article, see:

http://www.wia.org.au/newsevents/news/2009/20090603-2/index.php

6. ARISS on Twitter

The European Space Agency (ESA) is currently promoting
their Amateur Radio on the International Space Station
(ARISS) school contacts on their Twitter site.
See: http://twitter.com/esa_oasiss.

A U.S. ARISS member has also been posting ISS amateur
radio related items to a Twitter site.
See: http://twitter.com/RF2Space.

7. ESA Press Release on Frank De Winne's ARISS Contacts

The European Space Agency (ESA) put out a press release
on Frank De Winne's Amateur Radio on the International
Space Station (ARISS) contacts. See:
http://www.esa.int/SPECIALS/OasISS_Mission/SEM6SOQORVF_0.html

8. ARISS International Meeting

The Amateur Radio on the International Space Station
(ARISS) International Face to Face Meeting will be held
on Thursday and Friday, June 18 -19 at the European
Space Research and Technology Centre (ESTEC) in the
Netherlands. The team will come together to give regional
reports as well as status reports from the program's
other committees including education, publicity,
operations and hardware.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

73,
This week's ANS Editor,
Dee Interdonato, NB2F

73. WSR-176 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-06-27 15:32:38 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c9f73c$78f10690$6ad313b0$@net>
Source record: 622
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-176.S1
WSR 176 Part 1 06/25/2009

AMSAT NEWS SERVICE BULLETIN 176.S1
FROM AMSAT HQ SILVER SPRING, MD, June 25, 2009
TO ALL RADIO AMATEURS
BID: $ANS-176.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM Repeater - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[06252009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS

Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-176.S2
WSR 176 Part 2 06/25/2009

AMSAT NEWS SERVICE BULLETIN 176.S2
FROM AMSAT HQ SILVER SPRING, MD, June 25, 2009
TO ALL RADIO AMATEURS
BID: $ANS-176.S2

CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808

Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM Repeater - Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[06252009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.

[06122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-176.S3
WSR 176 Part 3 06/25/2009

AMSAT NEWS SERVICE BULLETIN 176.S3
FROM AMSAT HQ SILVER SPRING, MD, June 25, 2009
TO ALL RADIO AMATEURS
BID: $ANS-176.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-176.S4
WSR 176 Part 4 06/25/2009

AMSAT NEWS SERVICE BULLETIN 176.S4
FROM AMSAT HQ SILVER SPRING, MD, June 25, 2009
TO ALL RADIO AMATEURS
BID: $ANS-176.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

_____
Via the ANS mailing list courtesy of AMSAT-NA
http://amsat.org/mailman/listinfo/ans

74. High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-28 06:54:14 UTC
From: Robert Clark <rgregoryclark@yahoo.com>
Message-ID: <d93b5c96-717b-43b1-8178-eec713504a89@h18g2000yqj.googlegroups.com>
Source record: 623
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

I had been thinking about methods of high data rate transmission in regards to getting *video* transmissions from Mars orbiter missions. I was irritated by the spotty coverage of the Mars surface at the best resolutions so I wanted to send real-time *continuous* imaging back to Earth receiving stations at the highest imaging resolutions. This would require very high transmission rates, much higher than what is currently used.

The idea would be to use light transmissions but only of the on-off variety. You would use a large surface, many meters across, capable of being alternatively lit up and darkened. There are computer chips of course capable of operating at Ghz rates. This would determine if the large surface was lit up or not electrically, possibly by using a material whose reflective properties can be changed electrically.

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In the large reflecting surface, I actually wanted to use separate, say, squares on the reflecting surface that could be put separately in the on-off position to increase the information transmission rate. But that would require being able to distinguish the squares from Earth millions of kilometers away. This is why I wanted to use light rather than radio for this since the larger wavelengths in radio would make the reflecting surface impractically large for diffraction limited resolution.

Even with light you couldn't do this with a single telescope. They would have to be widely separated. Combining the signals from widely separated scopes is common in radio astronomy but is not nearly as successful in optical astronomy. That is because the light wavelengths are so much smaller and you would have to have nanoscale accuracy in positioning the widely separate mirrors in relationship to each other. However, in the case of just detecting an on-off signal this shouldn't be as big of a problem as you're not trying to form a usable image, but only trying to see if a particular location is on or off. You would need though highly accurate timing synchrony between the separate scopes, within nanoseconds, to be sure they are detecting the same on-off square. Note also here that the shifting in the image due

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According to this page the resolution of the human eye at the lunar
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It could work with orbiters by the example set of satellite formation
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thought of the example of the "Iridium flares":

Satellite flare.
http://en.wikipedia.org/wiki/Satellite_flare

The Iridium satellites have 3 antennas that happen to be also
reflective in visible light, totaling 4.8 m^2 in area. According to
the Wikipedia page, the flares can be up to -8 in apparent magnitude,

though typically at +6 magnitude, and are produced by an individual antenna, so by one of area 1.6 m^2.
I'll assume the brightest flares are produced just by the orientation the antennas happen to be in so we could make our reflective surfaces be oriented with respect to the Sun to get the greatest brightness.
For the same size surface, the brightness would be lessened by the greater distance to the Moon. The Iridium satellites are at about 780 km altitude so the Moon is about 500 times further. This would lower the brightness by a factor of 500^2 = 250,000.
This page gives the apparent brightness commonly visible by the naked eye in urban areas as +3:

Apparent magnitude.
http://en.wikipedia.org/wiki/Apparent_magnitude

The 250,000 times lesser brightness at the lunar distance for an Iridium sized reflective surface would give it a +13.5 higher apparent magnitude so up to +5.5 in apparent magnitude. To make our reflective surface be at +3 apparent magnitude we could make the area be 10 times larger, so at 16 m^2 area, or a square 4 meters across.
We would need a method for a flat reflecting surface of unfolding it to this size. It might be easier instead to have the reflecting surface be a balloon inflated by stored gas. Since this would be in a vacuum, you wouldn't need much gas pressure or mass to accomplish this.
Another consideration is that because of the brightness of the Moon it could swamp out our illuminated surface. For the orbiter, this could probably be alleviated by having the orbiter have a highly elliptical orbit, (this also would be beneficial in minimizing the required delta-v and fuel load) then it would be visible at the higher distances from the Moon in its orbit. For the landers it might work for them to land in the dark lunar maria.

To communicate the message though we would need a method to turn on and off the reflecting surface. One possibility would be to have the reflecting surface consist of very many small squares that could be rotated to reflect toward the Earth or away. Another possibility might be to have it covered with LCD's. Whichever method it would have to be both lightweight and low power.
For our first attempts we probably would not want to send so many orbiter or landers at once to form a naked-eye visible image. We would first send just a single one to test it out. Note that this method with a single vehicle could still be used to send high definition video by having our single reflective surface be turned on and off at the required rate, about 256,000 times per sec with compression.

Bob Clark

On Jun 16, 6:57 pm, Robert Clark <rgregorycl...@yahoo.com> wrote:
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> "near real time" high definition video transmissions was achievable
> for a such a low-cost mission.

> It would certainly be doable if the receiving antennas on Earth were
> the large radio antennas used for space communications with
> interplanetary probes or those radio antennas used for radio
> astronomy. This is evidenced by the fact that the Kaguya(Selene) lunar
> orbiter mission was able to send high definition video to a large
> receiving dish radio antenna. And also by the fact that DirecTV sends
> high definition video to only 2 foot size antennas from geosynchronous
> orbit; so 10 times larger antennas would be able to receive such
> signals from a 10 times larger distance at the Moon.
> However, I was wondering if it would be possible to detect this using
> amateur sized equipment at such a large distance. Usually for
> receiving high data rates you used transmissions at very high
> frequencies, as higher frequencies can carry more data. For instance
> both Kaguya and DirecTV transmit the high def video at gigahertz
> frequencies.
> However, for the system I'm imaging I'm thinking of using much lower
> frequencies, and necessarily longer wavelengths. What I wanted to do
> is transmit at decametric wavelengths. High data transmissions rates
> would be achieved by making it be pulsed in an on-off fashion at high
> intensity but at a rapid rate.
> On that other forum the data rate required for high def TV was given
> as 256,000 bits per second. So I wanted to make these transmissions be
> pulsed at this rapid rate at wavelengths of a few tens's of meters.
> My decametric wavelength requirement was because of the fact that
> high schools and universities have programs for detecting radio
> emissions from Jupiter at these wavelengths:
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> The Discovery of Jupiter's Radio Emissions.
> How a chance discovery opened up the field of Jovian radio studies.
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> dozens to hundreds of vertical dipoles of lengths at the meters scale
> to correspond to the radio wavelengths. Some questions I had: how
> intense would the pulse have to be on the Moon to be detectable from
> the Moon above background noise for a detector on Earth of say a few
> dozen dipoles? Could this be done for the transmitter of power of say
> a few hundred watts for a low cost, low weight lander mission? Could
> the transmitter antenna on the moon be only a few meters size for the
> low weight requirement?
> A secondary purpose I had in mind was a pet project of mine involving
> linking these many school receivers to form a global telescope at
> decametric wavelengths:
>
> From: rgcl...@my-deja.com (Robert Clark)
> Date: 23 May 2001 11:15:06 -0700
> Subject: Will amateur radio astronomers be the first to directly
> detect extrasolar planets?

> Newsgroups: rec.radio.amateur.space, rec.radio.amateur.antenna,
> sci.astro, sci.astro.seti,
sci.space.policyhttp://groups.google.com/group/sci.astro.seti/browse_frm/thread/c0018...
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> The long wavelengths should make the requirements for accurate
> distance information and timing synchrony between the separate
> detectors easy to manage even for amateur systems. Using this method
> might make the detection achievable even if the power or transmitting
> antenna size requirements are not practical for a low cost, low weight
> lander on the Moon for an individual detector on Earth.
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> Date Released: Friday, October 08, 2004
> Source: Jodrell Bank Observatoryhttp://www.spaceref.com/news/viewpr.html?pid=15251
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>   Bob Clark

75. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-28 07:14:14 UTC
From: Peter Webb <webbfamily@DIESPAMDIEoptusnet.com.au>
Message-ID: <4a471855$0$22552$afc38c87@news.optusnet.com.au>
Source record: 624
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

Nice idea, but ...

Illuminating an area of Mars or the moon and relying on this secondary reflection will actually produce less photons returning to earth than aiming the light source directly at the earth.

Furthermore, the radiation from a reflected area is isotropic - goes in all directions - and hence very little is directed towards the earth.

If you were using the light source directly, rather than having it illuminate an area of the ground, you could also use lenses or mirrors to focus it back on the earth, giving thousands or millions of times the signal strength on earth, the same technique as is used for radio comms.

"Robert Clark" <rgregoryclark@yahoo.com> wrote in message news:d93b5c96-717b-43b1-8178-eec713504a89@h18g2000yqj.googlegroups.com...
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I was worried though about the twinkling seen in point sources, which this would appear to be, such as with stars due to atmospheric effects. So this might require the telescope(s) to be in Earth orbit.
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than radio for this since the larger wavelengths in radio would make the reflecting surface impractically large for diffraction limited resolution.
Even with light you couldn't do this with a single telescope. They would have to be widely separated. Combining the signals from widely separated scopes is common in radio astronomy but is not nearly as successful in optical astronomy. That is because the light wavelengths are so much smaller and you would have to have nanoscale accuracy in positioning the widely separate mirrors in relationship to each other. However, in the case of just detecting an on-off signal this shouldn't be as big of a problem as you're not trying to form a usable image, but only trying to see if a particular location is on or off. You would need though highly accurate timing synchrony between the separate scopes, within nanoseconds, to be sure they are detecting the same on-off square. Note also here that the shifting in the image due to atmospheric distortion very definitely would be bad for using ground based scopes.

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I wouldn't be in favor of doing this in a way that would actually advertise a product. But I was thinking about it as a way of sending a message in favor of, for example, world peace. In this case you could still have advertisers who could say in TV commercials for example they supplied funding to support the mission and the message.
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> How a chance discovery opened up the field of Jovian radio studies.
> by Dr. Leonard N.
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> sci.astro, sci.astro.seti,
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> Bob Clark

76. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-28 17:41:34 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <tiaf45p58ncdq3ssmgbtmef6jv7k3n7ve0@4ax.com>
Source record: 625
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Sun, 28 Jun 2009 17:14:14 +1000, "Peter Webb"
<webbfamily@DIESPAMDIEoptusnet.com.au> wrote:

>Furthermore, the radiation from a reflected area is isotropic - goes in all
>directions - and hence very little is directed towards the earth.

Actually, it is lambertian in its distribution, and it would have a
major lobe that was directed in rather typical fashion (at the same,
but negative angle to the norm to the surface). However, as is the
intent of your response, very much less will find its way to the
intended target.

73's
Richard Clark, KB7QHC

77. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-28 18:37:01 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <72ef451urb76hj7jpsrqqu2rltv042lefk@4ax.com>
Source record: 626
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Sat, 27 Jun 2009 23:54:14 -0700 (PDT), Robert Clark
<rgregoryclark@yahoo.com> wrote:

> I had been thinking about methods of high data rate transmission in
>regards to getting *video* transmissions from Mars orbiter missions. I
>was irritated by the spotty coverage of the Mars surface at the best
>resolutions so I wanted to send real-time *continuous* imaging back to
>Earth receiving stations at the highest imaging resolutions.

A curious distinction in this "continuous." Direct Current
transmission from Mars? I think not. Anything else is rather
conventional.

>This
>would require very high transmission rates, much higher than what is
>currently used.

"Continuous" is not distinctive to rate except at DC. Grab both sides
of conventional 120VAC from any wall socket, and it will seem
distinctly continuous - boosting it 1 THz wouldn't bring any different
sensation.

>The idea would be to use light transmissions but only of the on-off
>variety.

Rates, and on-off have departed the realm of "continuous."

>You would use a large surface, many meters across, capable of
>being alternatively lit up and darkened.

This is entirely unrelated to "continuous" rates or modes of
transmission. In and of itself, in regards to establishing remote
communications at light wavelengths, it is guilding the lily and
painting the rose.

>There are computer chips of
>course capable of operating at Ghz rates.
How that relates to:
>This would determine if the
>large surface was lit up or not electrically, possibly by using a
>material whose reflective properties can be changed electrically.
is bordering on stream-of-consciousness rambling.

>I actually wanted to use separate,
>say, squares on the reflecting surface that could be put separately in
>the on-off position to increase the information transmission rate.

There is no causal correlation between many surfaces and rate. This is merely the substitution of complexity for the appearance of deep consideration (which it is not).

>This is why I wanted to use light rather
>than radio for this since the larger wavelengths in radio would make
>the reflecting surface impractically large for diffraction limited
>resolution.

You are simply limited in your perception of what RF and Light means. If one suffers for wavelength, then they both do.

>Even with light you couldn't do this with a single telescope.

Sounds like an artificial objection. Have you tried thinking in terms of a power budget?

>They would have to be widely separated.
Does not come naturally as a solution from the rather diaphonous problem put forward to this point, and the following is not a reason:
>Combining the signals from widely
>separated scopes is common in radio astronomy but is not nearly as
>successful in optical astronomy. That is because the light wavelengths
>are so much smaller and you would have to have nanoscale accuracy in
>positioning the widely separate mirrors in relationship to each other.
This is problem of degree, one which you painted yourself into a corner with. Further, it doesn't necessarily follow one from the other.

>However, in the case of just detecting an on-off signal this shouldn't
>be as big of a problem as you're not trying to form a usable image,
>but only trying to see if a particular location is on or off. You
>would need though highly accurate timing synchrony between the
>separate scopes, within nanoseconds, to be sure they are detecting the
>same on-off square. Note also here that the shifting in the image due
>to atmospheric distortion very definitely would be bad for using
>ground based scopes.

This is, based on your own objections, rather whipsawed by the application of the term "nano." Nanoseconds and nanometers are not on the balance to the solution of your problem. If you had nanometer issues optically, they are not solved within nanoseconds simply because they are not forming an image (which is a poor metaphor because if fails with its own application).

>moon advertising.
>put a billboard on the moon.
>http://www.halfbakery.com/idea/moon_20advertising

Half backed? It is undercooked by half that again.

Let's consider: To obtain a sufficient contrast ratio, the light would have to exceed the brilliance of the sun.

Did I mention a power budget?

The rest of this hardly borders on novely so much as fantasy. Keep
that to the appropriate groups.

73's
Richard Clark, KB7QHC

78. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-28 20:48:25 UTC
From: BradGuth <bradguth@gmail.com>
Message-ID: <a7ca4412-2049-4f84-a646-25bec33956a1@e21g2000yqb.googlegroups.com>
Source record: 627
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

Yes, you are perfectly dead on the spot for using the visual spectrum
on behalf of interplanetary and interstellar communications, as by far
the most extremely narrow of monochromatic or those of FM photons
accomplishing their one-way or ideally two-way energy and technology
efficient alternative. I kid you not.

The problem is that it’s perhaps too darn good and perhaps even too
energy efficient. Signal pointing and tracking errors from a
satellite platform are seriously narrow, though receiving isn’t all
that insurmountable.

~ BG

On Jun 28, 12:14 am, "Peter Webb"
<webbfam...@DIESPAMDIEoptusnet.com.au> wrote:
> Nice idea, but ...
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> Illuminating an area of Mars or the moon and relying on this secondary
> reflection will actually produce less photons returning to earth than aiming
> the light source directly at the earth.
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> Furthermore, the radiation from a reflected area is isotropic - goes in all
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> being alternatively lit up and darkened. There are computer chips of
> course capable of operating at Ghz rates. This would determine if the
> large surface was lit up or not electrically, possibly by using a

> material whose reflective properties can be changed electrically.
> I was worried though about the twinkling seen in point sources, which
> this would appear to be, such as with stars due to atmospheric
> effects. So this might require the telescope(s) to be in Earth orbit.
> The question I had though was whether the atmospheric distortion would
> cause an "on" signal to appear "off" and vice versa? My understanding
> of atmospheric distortion is that it causes the point source to be
> constantly apparently undergoing small shifts in position. But this
> wouldn't be a problem if what you want to determine is whether it is
> on or off. If that is the case then ground based telescopes would
> work.
> In the large reflecting surface, I actually wanted to use separate,
> say, squares on the reflecting surface that could be put separately in
> the on-off position to increase the information transmission rate. But
> that would require being able to distinguish the squares from Earth
> millions of kilometers away. This is why I wanted to use light rather
> than radio for this since the larger wavelengths in radio would make
> the reflecting surface impractically large for diffraction limited
> resolution.
> Even with light you couldn't do this with a single telescope. They
> would have to be widely separated. Combining the signals from widely
> separated scopes is common in radio astronomy but is not nearly as
> successful in optical astronomy. That is because the light wavelengths
> are so much smaller and you would have to have nanoscale accuracy in
> positioning the widely separate mirrors in relationship to each other.
> However, in the case of just detecting an on-off signal this shouldn't
> be as big of a problem as you're not trying to form a usable image,
> but only trying to see if a particular location is on or off. You
> would need though highly accurate timing synchrony between the
> separate scopes, within nanoseconds, to be sure they are detecting the
> same on-off square. Note also here that the shifting in the image due
> to atmospheric distortion very definitely would be bad for using
> ground based scopes.
>
> It occurred to me this might be a means of acquiring advertising
> support for a Google Lunar X Prize entrant. I had also been trying to
> come up with a method of having an illuminated image either on the
> Moon or in lunar orbit that would be visible to the naked eye on
> Earth. Such an idea was discussed here:
>
> moon advertising.
> put a billboard on the moon.http://www.halfbakery.com/idea/moon_20advertising
>
> I wouldn't be in favor of doing this in a way that would actually
> advertise a product. But I was thinking about it as a way of sending a
> message in favor of, for example, world peace. In this case you could
> still have advertisers who could say in TV commercials for example
> they supplied funding to support the mission and the message.
> BTW, I would be in favor of advertisers who could pay to have
> advertising signs set up at the rover landing site so that if anyone

> who wanted to log on to the the rover transmissions or who watched a
> TV program on the rover transmissions would see the ads. This to me is
> something different than an ad that someone would be forced to see
> just by looking up at the Moon.
> In any case you would need something large enough so that with naked
> eye resolution at the lunar distance it would still be
> distinguishable. This page gives the naked eye resolution at the lunar
> distance:
>
> Purpose of Building Telescopes.http://www.astronomy.org/astronomy-survival/telepur.htm
>
> According to this page the resolution of the human eye at the lunar
> distance would be about 22 miles. One single object clearly couldn't
> do this. However, if you had separate illuminated landers or orbiters
> at this large distance apart they could be used to send a message
> visible to the naked eye on Earth.
> It could work with orbiters by the example set of satellite formation
> flying by the Cluster mission:
>
> Cluster mission.http://en.wikipedia.org/wiki/Cluster_mission
>
> I also needed to find how large a brightly illuminated surface needed
> to be at the lunar surface to be visible by the naked eye on Earth. I
> thought of the example of the "Iridium flares":
>
> Satellite flare.http://en.wikipedia.org/wiki/Satellite_flare
>
> The Iridium satellites have 3 antennas that happen to be also
> reflective in visible light, totaling 4.8 m^2 in area. According to
> the Wikipedia page, the flares can be up to -8 in apparent magnitude,
> though typically at +6 magnitude, and are produced by an individual
> antenna, so by one of area 1.6 m^2.
> I'll assume the brightest flares are produced just by the orientation
> the antennas happen to be in so we could make our reflective surfaces
> be oriented with respect to the Sun to get the greatest brightness.
> For the same size surface, the brightness would be lessened by the
> greater distance to the Moon. The Iridium satellites are at about 780
> km altitude so the Moon is about 500 times further. This would lower
> the brightness by a factor of 500^2 = 250,000.
> This page gives the apparent brightness commonly visible by the naked
> eye in urban areas as +3:
>
> Apparent magnitude.http://en.wikipedia.org/wiki/Apparent_magnitude
>
> The 250,000 times lesser brightness at the lunar distance for an
> Iridium sized reflective surface would give it a +13.5 higher apparent
> magnitude so up to +5.5 in apparent magnitude. To make our reflective
> surface be at +3 apparent magnitude we could make the area be 10 times
> larger, so at 16 m^2 area, or a square 4 meters across.
> We would need a method for a flat reflecting surface of unfolding it

> to this size. It might be easier instead to have the reflecting
> surface be a balloon inflated by stored gas. Since this would be in a
> vacuum, you wouldn't need much gas pressure or mass to accomplish
> this.
> Another consideration is that because of the brightness of the Moon
> it could swamp out our illuminated surface. For the orbiter, this
> could probably be alleviated by having the orbiter have a highly
> elliptical orbit, (this also would be beneficial in minimizing the
> required delta-v and fuel load) then it would be visible at the higher
> distances from the Moon in its orbit. For the landers it might work
> for them to land in the dark lunar maria.
>
> To communicate the message though we would need a method to turn on
> and off the reflecting surface. One possibility would be to have the
> reflecting surface consist of very many small squares that could be
> rotated to reflect toward the Earth or away. Another possibility might
> be to have it covered with LCD's. Whichever method it would have to be
> both lightweight and low power.
> For our first attempts we probably would not want to send so many
> orbiter or landers at once to form a naked-eye visible image. We would
> first send just a single one to test it out. Note that this method
> with a single vehicle could still be used to send high definition
> video by having our single reflective surface be turned on and off at
> the required rate, about 256,000 times per sec with compression.
>
>   Bob Clark
>
> On Jun 16, 6:57 pm, Robert Clark <rgregorycl...@yahoo.com> wrote:> On another forum there
was debate about whether the requirement of
> > "near real time" high definition video transmissions was achievable
> > for a such a low-cost mission.
> > It would certainly be doable if the receiving antennas on Earth were
> > the large radio antennas used for space communications with
> > interplanetary probes or those radio antennas used for radio
> > astronomy. This is evidenced by the fact that the Kaguya(Selene) lunar
> > orbiter mission was able to send high definition video to a large
> > receiving dish radio antenna. And also by the fact that DirecTV sends
> > high definition video to only 2 foot size antennas from geosynchronous
> > orbit; so 10 times larger antennas would be able to receive such
> > signals from a 10 times larger distance at the Moon.
> > However, I was wondering if it would be possible to detect this using
> > amateur sized equipment at such a large distance. Usually for
> > receiving high data rates you used transmissions at very high
> > frequencies, as higher frequencies can carry more data. For instance
> > both Kaguya and DirecTV transmit the high def video at gigahertz
> > frequencies.
> > However, for the system I'm imaging I'm thinking of using much lower
> > frequencies, and necessarily longer wavelengths. What I wanted to do
> > is transmit at decametric wavelengths. High data transmissions rates
> > would be achieved by making it be pulsed in an on-off fashion at high

> > intensity but at a rapid rate.
> > On that other forum the data rate required for high def TV was given
> > as 256,000 bits per second. So I wanted to make these transmissions be
> > pulsed at this rapid rate at wavelengths of a few tens's of meters.
> > My decametric wavelength requirement was because of the fact that
> > high schools and universities have programs for detecting radio
> > emissions from Jupiter at these wavelengths:
>
> > NASA's Radio JOVE Project.http://radiojove.gsfc.nasa.gov/
>
> > The Discovery of Jupiter's Radio Emissions.
> > How a chance discovery opened up the field of Jovian radio studies.
> > by Dr. Leonard N.
> > Garciahttp://radiojove.gsfc.nasa.gov/library/sci_briefs/discovery.html
>
> > These school and university receiving antennas on Earth consist of
> > dozens to hundreds of vertical dipoles of lengths at the meters scale
> > to correspond to the radio wavelengths. Some questions I had: how
> > intense would the pulse have to be on the Moon to be detectable from
> > the Moon above background noise for a detector on Earth of say a few
> > dozen dipoles? Could this be done for the transmitter of power of say
> > a few hundred watts for a low cost, low weight lander mission? Could
> > the transmitter antenna on the moon be only a few meters size for the
> > low weight requirement?
> > A secondary purpose I had in mind was a pet project of mine involving
> > linking these many school receivers to form a global telescope at
> > decametric wavelengths:
>
> > From: rgcl...@my-deja.com (Robert Clark)
> > Date: 23 May 2001 11:15:06 -0700
> > Subject: Will amateur radio astronomers be the first to directly
> > detect extrasolar planets?
> > Newsgroups: rec.radio.amateur.space, rec.radio.amateur.antenna,
> > sci.astro, sci.astro.seti,
> >
sci.space.policyhttp://groups.google.com/group/sci.astro.seti/browse_frm/thread/c0018...
>
> > The long wavelengths should make the requirements for accurate
> > distance information and timing synchrony between the separate
> > detectors easy to manage even for amateur systems. Using this method
> > might make the detection achievable even if the power or transmitting
> > antenna size requirements are not practical for a low cost, low weight
> > lander on the Moon for an individual detector on Earth.
> > The recent achievement of real-time very long baseline interferometry
> > should make it possible to integrate these separate detector signals
> > in real-time as well:
>
> > Astronomers Demonstrate a Global Internet Telescope.
> > Date Released: Friday, October 08, 2004
> > Source: Jodrell Bank

> > Observatoryhttp://www.spaceref.com/news/viewpr.html?pid=15251
>
> > Bob Clark

79. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-28 20:59:07 UTC
From: Uncle Al <UncleAl0@hate.spam.net>
Message-ID: <4A47D99B.AF208356@hate.spam.net>
Source record: 628
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti

Robert Clark wrote:
>
> I had been thinking about methods of high data rate transmission in
> regards to getting *video* transmissions from Mars orbiter missions.

Would modulating a 1 GW continuous laser at Mars be sufficient? The
laser is already in place - and running,
[snip crap]

http://www.mazepath.com/uncleal/race.htm

Hey stooopid - what happened to the Mars surface space face? You
dumped a gigabyte of crap extolling it. Where's the compost?

> Even with light you couldn't do this with a single telescope.
[snip more crap]

What, a gigagatt continuous is not enough? Give an idiot the answer
and obtain NASA ratiocinating on how to get to the moon (and
presumably, back).

> I had also been trying to
> come up with a method of having an illuminated image either on the
> Moon or in lunar orbit that would be visible to the naked eye on
> Earth. Such an idea was discussed here:
[snip rest of crap]

http://www.geocities.com/SouthBeach/1380/crmoon.html

idiot

--
Uncle Al
http://www.mazepath.com/uncleal/
(Toxic URL! Unsafe for children and most mammals)
http://www.mazepath.com/uncleal/lajos.htm#a2

80. ANS-179 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-06-28 22:40:12 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000c01c9f841$60963830$21c2a890$@net>
Source record: 629
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-179

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* ARISS Reaches 443 School Contacts
* Alaskan Satellite Ops Planned
* Original American Colonies Will Be Active on Satellite
* Call for Papers--2009 ARRL/TAPR Digital Communications Conference
* AMSAT Awards
* ARISS Status - 22 June 2009

SB SAT @ AMSAT $ANS-137.01
ARISS Reaches 443 School Contacts

AMSAT News Service Bulletin 179.01
From AMSAT HQ SILVER SPRING, MD.
June 28, 2009
To All RADIO AMATEURS
BID: $ANS-179.01

A major milestone for the Amateur Radio on the International Space Station or ARISS school project. This as the total number of ARISS contacts between the astronaut hams on board the orbiting outpost and schoolrooms here on Earth has now reached 443.

An average of 20 students are able to ask questions of an on-orbit crew during a normal ARISS contact. That totals out to well over 8000 school kids world-wide who have gotten a chance to vicariously visit the International Space Station via ham radio since the classroom contact program began.

As space experimentation has progressed so has amateur radio's part in it. Today, the ARISS school contact program is an important part of this ongoing work by ham radio volunteers world-wide. Hams working with astronauts and cosmonauts to bring the science of spaceflight a

little closer to kids here on Earth.

[ANS thanks Bruce, K6PZW, & Newsline for the above information]

/EX

SB SAT @ AMSAT $ANS-137.02
Alaskan Satellite Ops Planned

AMSAT News Service Bulletin 179.02
From AMSAT HQ SILVER SPRING, MD.
June 28, 2009
To All RADIO AMATEURS
BID: $ANS-179.02

Dan Littel, AJ9K has advised that he will be on vacation in Alaska between July
1 - 11, and will try to be active during a few
passes during his stay. Dan will
be using my 5w VX-5R HT and AL800 whip on AO27, SO50 and AO51, if in mode J.
Here is Dan's expected schedule:

2 July2 BP51 Anchorage
3-4 July AO63 Dutch Harbor, Aleutian Isl
5-8 July BP64 Fairbanks
9-11 July BP42 Denali NP

Dan may also be able to fit in a few more grids while in transit. Dan also
noted that, "since this is a vacation, and I will have minimal control over my
schedule (that's my family's job, and I'm only a minority voting member...). I
hope to be as active as practical".

[ANS thanks Dan, AJ9K, for the above information]

/EX

SB SAT @ AMSAT $ANS-137.03
Original American Colonies Will Be Active on Satellite

AMSAT News Service Bulletin 179.03
From AMSAT HQ SILVER SPRING, MD.
June 28, 2009
To All RADIO AMATEURS
BID: $ANS-179.03

During the period from July 1 through July 5 at least nine of the Original 13
American Colonies will be active on the amateur satellites as part of a special
event organized by Ken, KU2US, in New York. Here is the Web site announcing the
event, and the certificate available:

http://home.comcast.net/~dzabawa/ThirteenColonies.htm

You'll also find updates on Ken's QRZ.com page - look up KU2US.

As of Wednesday, 24 June, there are commitments from stations in nine of the original 13 colonies, and they will be using the call signs for each that are
listed on the special events page. Tim, N3TL provided the following example, "I'll be operating as K2G daily during the special event. I intend to work at
least one pass of every satellite as K2G, every day."

Listed alphabetically by Colony, here are the stations that have confirmed to
date. The calls they will use are in parentheses:

Georgia - Tim, N3TL (K2G)
Massachusetts - Dave, KB1PVH (K2H)
New Hampshire - Rik, N1XED (K2K)
New Jersey - Marc, W4MPS (K2I)
New York - Peter, WB2OQQ (K2A)
North Carolina - Jim, ND9M (K2J)
Rhode Island - Fletch, N1RCN (K2C)
South Carolina - Art, K4YYL (K2L)
Virginia - Steve, NL7VX (K2B)

As of the 24th, there are four of the original 13 colonies NOT scheduled to be
active on the satellites:

Connecticut
Delaware
Maryland
Pennsylvania

Can anyone help with any of them?

The process is simple:
1 - Please email n3tl@bellsouth.netto let him know of your interest.
2 - You can work as many or as few satellite passes as you like during the special event. It's supposed to be fun, not work!
3 - After the event, email your log(s) to KU2US, who will handle the certificates.

Tim will provide more information after hearing from anyone who wants to activate one of the four remaining colonies.

Everyone is welcome and encouraged to work one or
more of us on passes from July
1 through July 5. You only need to work one station to get the certificate, but
the more the merrier!

[ANS thanks Tim, N3TL, for the above information]

/EX

SB SAT @ AMSAT $ANS-137.04
Call for Papers--2009 ARRL/TAPR Digital Communications Conference

AMSAT News Service Bulletin 179.04
From AMSAT HQ SILVER SPRING, MD.
June 28, 2009
To All RADIO AMATEURS
BID: $ANS-179.04

Technical papers are solicited for presentation at the 28th Annual ARRL and TAPR Digital Communications Conference to be held September 25-27, 2009 in Chicago, Illinois. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2009. Please send papers to:

Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@arrl.org

Papers will be published exactly as submitted and authors will retain all rights.

[ANS thanks Steve, WB8IMY, for the above information]

/EX

SB SAT @ AMSAT $ANS-137.05
AMSAT Awards

AMSAT News Service Bulletin 179.05
From AMSAT HQ SILVER SPRING, MD.
June 28, 2009
To All RADIO AMATEURS
BID: $ANS-179.05

We would like to welcome the following to the Satellite Communicators Club for making their first satellite contact.

Nick Kucij, KB1RVT
Dave Glow, AA1VX

The following have earned the South Africa AMSAT Satellite Communications Achievement Award.

Peter Carr, WW3O #US133
Chris Lemon, KB9CL #US134
Thomas Lepley, KX3TL #US135
George Carr, WA5KBH #US136

The following have earned the AMSAT Satellite Communications Achievement Award.

Ham Operator, Your Call #500

Who will receive #500? Stay tuned, possibly coming in a week, two weeks, could be soon. If you have not sent in for your award yet, don't miss out on this opportunity.

To see all the awards visit http://www.amsat.org or http://www.amsatnet.com

Bruce Paige, KK5DO
AMSAT Director Contests and Awards

[ANS thanks Bruce, KK5DO, for the above information]

/EX

SB SAT @ AMSAT $ANS-137.06
ARISS Status - 22 June 2009

AMSAT News Service Bulletin 179.06
From AMSAT HQ SILVER SPRING, MD.
June 28, 2009
To All RADIO AMATEURS
BID: $ANS-179.06

1. Upcoming School Contacts

Inukjuak Space Camp in Kuujjuaq Quebec, Canada has been scheduled for an Amateur Radio on the International Space Station (ARISS) contact on July 2 at 17:58 UTC, assisted by telebridge station WH6PN in Hawaii. Makivik Corporation, a non-profit organization that promotes economic growth of Inuit businesses, is supporting the event. Students from grades 1-6 have been involved in a space club to learn about space, the International Space Station and amateur radio protocol. Audio from this contact will be fed into the EchoLink AMSAT (101377) and JK1ZRW (277208) servers.

2. ARISS International Meeting Held

The Amateur Radio on the International Space Station (ARISS) International Face to Face Meeting was held on Thursday and Friday, June 18 -19 at the European Space Research and Technology Centre (ESTEC) in the Netherlands. Team members gave reports on their respective regions as well as status updates on the program's committees including education, publicity, operations and hardware.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

81. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-29 00:31:58 UTC
From: Robert Clark <rgregoryclark@yahoo.com>
Message-ID: <c4dfce48-4867-40b6-9d8f-7f515a21c1a5@y9g2000yqg.googlegroups.com>
Source record: 630
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Jun 28, 1:41 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Sun, 28 Jun 2009 17:14:14 +1000, "Peter Webb"
>
> <webbfam...@DIESPAMDIEoptusnet.com.au> wrote:
> >Furthermore, the radiation from a reflected area is isotropic - goes in all
> >directions - and hence very little is directed towards the earth.
>
> Actually, it is lambertian in its distribution, and it would have a
> major lobe that was directed in rather typical fashion (at the same,
> but negative angle to the norm to the surface). However, as is the
> intent of your response, very much less will find its way to the
> intended target.
>
> 73's
> Richard Clark, KB7QHC

This describes the reflection from the Iridium antennas as specular
where most of the reflected light is concentrated in a single
direction:

SeeSat-L Apr-98: Method for predicting flare.
http://satobs.org/seesat/Apr-1998/0175.html

About specular reflection:

Specular reflection.
http://en.wikipedia.org/wiki/Specular_reflection

We could get even higher concentration of the image by using
parabolic mirror reflectors.

Bob Clark

82. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-29 03:14:58 UTC
From: Sam Wormley <swormley1@mchsi.com>
Message-ID: <SkW1m.165323$DP1.155290@attbi_s22>
Source record: 631
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

Plenty of bandwidth in the radio and microwave spectrum.

A Mathematical Theory of Communication by Claude E. Shannon
http://cm.bell-labs.com/cm/ms/what/shannonday/paper.html
http://cm.bell-labs.com/cm/ms/what/shannonday/shannon1948.pdf

Claude E. Shannon
http://scienceworld.wolfram.com/biography/Shannon.html

83. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-29 04:03:28 UTC
From: Craig Markwardt <craig.markwardt@gmail.com>
Message-ID: <ea4f31c6-ff4d-4c6b-b872-eb003d8b6659@l32g2000vbp.googlegroups.com>
Source record: 632
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

```
On Jun 28, 8:31 pm, Robert Clark <rgregorycl...@yahoo.com> wrote:
> On Jun 28, 1:41 pm, Richard Clark <kb7...@comcast.net> wrote:
>
> > On Sun, 28 Jun 2009 17:14:14 +1000, "Peter Webb"
>
> > <webbfam...@DIESPAMDIEoptusnet.com.au> wrote:
> > >Furthermore, the radiation from a reflected area is isotropic - goes in all
> > >directions - and hence very little is directed towards the earth.
>
> > Actually, it is lambertian in its distribution, and it would have a
> > major lobe that was directed in rather typical fashion (at the same,
> > but negative angle to the norm to the surface).  However, as is the
> > intent of your response, very much less will find its way to the
> > intended target.
>
> > 73's
> > Richard Clark, KB7QHC
>
>  This describes the reflection from the Iridium antennas as specular
> where most of the reflected light is concentrated in a single
> direction:
>
> SeeSat-L Apr-98: Method for predicting flare.http://satobs.org/seesat/Apr-1998/0175.html
>
>  About specular reflection:
>
> Specular reflection.http://en.wikipedia.org/wiki/Specular_reflection
>
>  We could get even higher concentration of the image by using
> parabolic mirror reflectors.

So basically you discovered the parabolic antenna. Congratulations.

CM
```

84. Re: High data rate space transmissions through visible light communication.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-29 05:03:42 UTC
From: BradGuth <bradguth@gmail.com>
Message-ID: <41bfcaf2-d9d9-4f81-8a10-3dc7faf4f08a@z14g2000yqa.googlegroups.com>
Source record: 633
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Jun 28, 5:31 pm, Robert Clark <rgregorycl...@yahoo.com> wrote:
> On Jun 28, 1:41 pm, Richard Clark <kb7...@comcast.net> wrote:
>
> > On Sun, 28 Jun 2009 17:14:14 +1000, "Peter Webb"
>
> > <webbfam...@DIESPAMDIEoptusnet.com.au> wrote:
> > >Furthermore, the radiation from a reflected area is isotropic - goes in all
> > >directions - and hence very little is directed towards the earth.
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> > Actually, it is lambertian in its distribution, and it would have a
> > major lobe that was directed in rather typical fashion (at the same,
> > but negative angle to the norm to the surface). However, as is the
> > intent of your response, very much less will find its way to the
> > intended target.
>
> > 73's
> > Richard Clark, KB7QHC
>
> This describes the reflection from the Iridium antennas as specular
> where most of the reflected light is concentrated in a single
> direction:
>
> SeeSat-L Apr-98: Method for predicting flare.http://satobs.org/seesat/Apr-1998/0175.html
>
> About specular reflection:
>
> Specular reflection.http://en.wikipedia.org/wiki/Specular_reflection
>
> We could get even higher concentration of the image by using
> parabolic mirror reflectors.
>
> Bob Clark

Yes, and it was all doable as of more than a decade ago. However, at
the rate we're going, perhaps another century is required.

~ BG

85. Re: Detecting the HDTV for the Google Lunar X Prize, applications to the SETI search.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-30 18:37:29 UTC
From: Robert Clark <rgregoryclark@yahoo.com>
Message-ID: <c3131f3f-b685-4510-bf2d-a9b74e6d3212@q14g2000vbn.googlegroups.com>
Source record: 634
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Jun 16, 9:43 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> ...
>
> Look up LOFAR or the SKA (Square Kilometer Array) for a fairly well
> funded scheme.

LOFAR.
http://en.wikipedia.org/wiki/LOFAR

LOFAR like my proposal is to use many separate dipoles to detect long wavelength radio waves. However, it is to have only 10,000 dipoles whereas mine at the end will have ca. 1 billion dipoles.

The progenitors of the LOFAR project have argued in papers that it could be used for the SETI search. However, this article by well known SETI search scientist Seth Shostak argues LOFAR will be too weak to detect Earth type radio transmissions at a distance of say 55 light-years by a factor of 1 million:

Listening for ET’s Television.
November 9, 2006
by Seth Shostak, Senior Astronomer
http://www.seti.org/Page.aspx?pid=917

Then since my proposal will be about 100,000 times more sensitive than LOFAR, it could detect Earth-like radio transmissions to about 1/3 the distance of 55 lightyears, or to about 18 lightyears way. There are several star systems in that range. The Shostak article notes you could get several hundred times better sensitivity by listening to certain stars over months or years. Then my proposal could detect such transmissions out to even 55 lightyears and further.

Bob Clark

86. Re: Detecting the HDTV for the Google Lunar X Prize, applications to the SETI search.

Newsgroup: rec.radio.amateur.space
Date: 2009-06-30 21:10:08 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <mnvk4516r26idmgfhd89caquonurv9e0re@4ax.com>
Source record: 635
Cross-posted to: sci.astro,rec.radio.amateur.space,rec.radio.amateur.antenna,sci.astro.seti,sci.physics

On Tue, 30 Jun 2009 11:37:29 -0700 (PDT), Robert Clark
<rgregoryclark@yahoo.com> wrote:

>The Shostak article
>notes you could get several hundred times better sensitivity by
>listening to certain stars over months or years.

And if you lost your keys at night, you might find them faster looking
under street lights.

Yet another troll.

73's
Richard Clark, KB7QHC

87. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.space
Date: 2009-07-01 06:00:02 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1246428001@panix.com>
Source record: 636
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

88. WSR-184 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-07-04 03:16:28 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002701c9fc55$c8665860$59330920$@net>
Source record: 637
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-184.S1
WSR 184 Part 1 07/03/2009

AMSAT NEWS SERVICE BULLETIN 184.S1
FROM AMSAT HQ SILVER SPRING, MD, July 03, 2009
TO ALL RADIO AMATEURS
BID: $ANS-184.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[07032009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-184.S2
WSR 184 Part 2 07/03/2009

AMSAT NEWS SERVICE BULLETIN 184.S2
FROM AMSAT HQ SILVER SPRING, MD, July 03, 2009
TO ALL RADIO AMATEURS
BID: $ANS-184.S2

CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL

=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]

=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[07032009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM

145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]

=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL

=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v

BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-184.S3
WSR 184 Part 3 07/03/2009

AMSAT NEWS SERVICE BULLETIN 184.S3
FROM AMSAT HQ SILVER SPRING, MD, July 03, 2009
TO ALL RADIO AMATEURS
BID: $ANS-184.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]

=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-184.S4
WSR 184 Part 4 07/03/2009

AMSAT NEWS SERVICE BULLETIN 184.S4
FROM AMSAT HQ SILVER SPRING, MD, July 03, 2009
TO ALL RADIO AMATEURS
BID: $ANS-184.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
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_____
Via the ANS mailing list courtesy of AMSAT-NA
http://amsat.org/mailman/listinfo/ans

89. ANS-186 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-07-05 01:43:48 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000501c9fd12$060aa790$121ff6b0$@net>
Source record: 638
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-186

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:

* AMSAT 2009 Space Symposium and Annual General Meeting
* AMSAT Forum videos from Dayton Hamvention
* SuitSat-2 Systems Integration
* AO-51 Engineering Team Continues to Monitor Power Levels
* Certificate Available for 13 Colonies Special Event Station
* Special Event Station 4C50C via Satellite From Mexico
* AMSAT Satellite Communications Achievement Award #500 Issued
* Recognition for SumbandilaSat Design and Development
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-186.01
AMSAT 2009 Space Symposium and Annual General Meeting

AMSAT News Service Bulletin 186.01
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.01

Now is the time for you to prepare your papers and presentations for the 2009 AMSAT Annual Meeting and Space Symposium to be held October 9 - 11 at the Four Points Sheraton Hotel at the Baltimore Washington Airport.

Proposals for papers, symposium presentations and poster presenta-
tions are invited on any topic of interest to the amateur satellite

community. We request a tentative title of your presentation as soon as possible, with final copy submitted by September 1, 2009 for inclusion in the printed proceedings.

Abstracts and papers should be sent to Dan Schultz, N8FGV, at n8fgv@amsat.org.

[ANS thanks the 2009 Symposium Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-186.02
AMSAT Forum videos from Dayton Hamvention

AMSAT News Service Bulletin 186.02
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.02

Videos of the six presentations at the AMSAT Forum at the 2009 Dayton Hamvention are now on the AMSAT website. Click on this link:

http://www.amsat.org/amsat-new/information/videoNews.php - or -

go to the AMSAT website and click on the AMSAT Video News icon about halfway down the page in the left column.

The presentations include:

1. Richard Garriott's forum talk (mislabeled on the web site as the Banquet presentation, actual length about 15 minutes) on his visit to the ISS.

2. AMSAT Status report, Barry Baines, WD4ASW

3. SuitSat-2 Project Status, Gould Smith, WA4SXM

4. Satellite Operations Status, Drew Glasbrenner, KO4MA

5. ARISS Status, Will Marchant, KC6ROL

6. Columbus Module Antennas, Lou McFadin, W5DID

Be sure and watch Barry's presentation on the Status of AMSAT. Thanks go to Steve Belter, who recorded, edited and converted the video of the AMSAT presentations at the 2009 Dayton AMSAT Forum, Rob Meisse W8GSM for setting them up on his server and to Rick Hambly W2GPS for updates on this web page.

[ANS thanks Gould, WA4SXM and Steve, N9IP for above information]

/EX

SB SAT @ AMSAT $ANS-186.03
SuitSat-2 Systems Integration

AMSAT News Service Bulletin 186.03
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.03

Many of the SuitSat-2 team members will converge on Phoenix during the weekend of July 10-12 for a system integration party. The team expects to put all of the hardware modules together that have been developed in many parts of the country. SuitSat-2 Project Manager, Gould WA4SXM said, "It is great to be at the point that we can start testing system operations with the hardware and software. The fun begins Friday July 10." You can keep up with the integration activities next weekend using Twitter http://twitter.com/GGouldSmith.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-186.04
AO-51 Engineering Team Continues to Monitor Power Levels

AMSAT News Service Bulletin 186.04
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.04

Due to the increasing time AO-51 is spending in eclipse AMSAT Vice-President of Operations, Drew KO4MA reports that transmitter power levels have needed to be reduced. This way the batteries will provide enough power to keep the satellite operational when the solar cells are not providing charging current. AO-51 users have already noted the weaker signals on the downlinks.

The AO-51 Control Team Web Page for latest operating information will carry the latest status of the satellite. See: http://www.amsat.org/amsat-new/echo/CTNews.php

AMSAT now has a Twitter account at http://twitter.com/AMSAT where the AO-51 Operations Team will try to tweet things too small for ANS bulletins or email, but of interest to the general AMSAT community. The most recent tweet reported, "AO-51 is in "normal" mode, telemetry on 435.150 @ 240mw, V/u repeater on 435.300 @ 290mw."

Gould, WA4SXM, AO-51 Ground Control Station said, "The eclipse time should start to decrease over the next few days hopefully allowing improvement in the transmitter power settings."

Gould continues with the news, "The AO-51 telemetry archive is up to date as of last night. AO-51 telemetry data is available in raw format, CSA (comma separated variable) format that has the channel data converted by the configuration equations and there are some Excel files (most with graphs). There are a number of Excel files with graphs for

June 2009 as that was a very interesting month for AO-51 operation. I encourage exploration of the data and any insights gleaned."

The telemetry archive can be found at:
http://www.amsat.org/amsat/ftp/telemetry/ao51/

[ANS thanks AO-51 Command Station, Gould WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-186.05
Certificate Available for 13 Colonies Special Event Station

AMSAT News Service Bulletin 186.05
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.05

If you worked the stations participating in the Original 13 Colonies Independence Day Special Event between July 1- 5 you can send for a commemorative certificate.

Ken requests, "Each station to send a contact log stating the Date, UTC, Band, & call sign of each contact, along with your QSL card and $4.00 US. in check, MO. or cash (to help defray printing costs). NO SASE required. We will furnish postage, certificate and 9"x12" envelope. No QSL cards will be issued - just the certificate. All award requests and payment to be sent and made out to the KU2US-Award Manager address shown on the event log form."

Log form in PDF format: http://tinyurl.com/nbrxzv
Log form in text format: http://tinyurl.com/klv53u

[ANS thanks Ken, KU2US and Tim, N3TL for the above information]

/EX

SB SAT @ AMSAT $ANS-186.06
Special Event Station 4C50C via Satellite From Mexico

AMSAT News Service Bulletin 186.06
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.06

Omar XE1AO, a regular satellite operator from central Mexico, reported news of a special callsign that will be showing up on the satellites between now and 31 August 2009.

The call, 4C50C ("Four Charlie Fifty Charlie"), is part of the "Trabaja Todo Colima" (Work All Colima) special event currently taking place in the central Mexican state of Colima. This event

is commemorating the 50th anniversary of the creation of the J. Roberto Levy radio club in that state.

During the months of June, July, and August, stations from all over Colima have been on HF and the satellites, trying to put all 10 Colima "municipios" (municipalities, similar to counties in the USA) on the air. On HF, the special call XE50C has been used from different parts of Colima. Now, four hams (XE1AO, XE1ATZ, XE1AY, and XE1J) have been authorized by the Mexican telecommunications regulator CoFeTel to use 4C50C on the satellites as part of this event.

Initially, XE1AO will attempt to put 4C50C on AO-51's evening passes along with VO-52 and FO-29 evening passes. Omar and the other 3 hams hope to expand the use of 4C50C onto SO-50 and AO-27, plus look at passes at other times of the day during this period.

For hams outside Mexico, XE1J is the QSL manager for these special calls. The Mexican QSL bureau will take care of QSL requests from XE hams. Along with the QSL cards, there will be a certificate available to stations that work stations in at least 7 of the 10 Colima municipalities and also accumulate at least 74 points based on the location of the stations worked in Colima. Additional points are available for working certain stations like XE50C and 4C50C.

[ANS thanks Omar XE1AO and Patrick WD9EWK/VA7EWK for the above information]

/EX

SB SAT @ AMSAT $ANS-186.07
AMSAT Satellite Communications Achievement Award #500 Issued

AMSAT News Service Bulletin 186.07
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.07

AMSAT Director Contests and Awards, Bruce KK5DO reported, "Since mid May we have been waiting to see who would get the AMSAT Satellite Communications Achievement Award #500. Here are the awards issued in the order they were received. Congratulations to everyone that submitted for the award!"

The following have earned the AMSAT Satellite Communications Achievement Award.

Chris Lemon, KB9CL #490
Ernest Howard, W8EH #491
Peter Portanova, WB2OOQ #492
Michael Klomfass, DH5MK #493

James DeYoung, N8OQ #494
Ronald Parsons, W5RKN #495
Thomas Lepley, KX3TL #496
Chris Meyers, KC0YBM #497
Nick Kucij, KB1RVT #498
George Carr, WA5KBH #499
Ward Hall, WC0Y #500
Jim Klassen, N6JMK #501
James Clary, ND9M #502

To see all the awards visit http://www.amsat.org.

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-186.08
Recognition for SumbandilaSat Design and Development

AMSAT News Service Bulletin 186.08
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.08

In recognition of their design and development of the Amateur Payload on South Africa's SumbandilaSat Andrew Roos, ZS6AA, and Hannes Coetzee, ZS6BPZ jointly received the Garth Milne Technology Award. SumbandilaSat is currently planned to be launched on 21 August on a Soyuz Rocket from Baikonur.

[ANS thanks Amateur Radio Newsline Report 1664 - July 3 2009 for the above information]

/EX

SB SAT @ AMSAT $ANS-186.09
Satellite Shorts From All Over

AMSAT News Service Bulletin 186.09
>From AMSAT HQ SILVER SPRING, MD.
July 5, 2009
To All RADIO AMATEURS
BID: $ANS-186.09

+ Jim, ND9M/VQ9JC plans to return to Diego Garcia (VQ9, Grid MI62) in August. Operation will be on the FM and linear birds shortly thereafter.

+ The next Hudson Valley Satcom Group nets are Thurday July 9 and July 23 at 8:00 PM EDT (UTC-4) and will be simulcast on Echolink node N2EYH-L. More information at http://www.hvsatcom.org
(Stu, WA2BSS)

+ Mark, WA8SME will be giving a demonstration of ham radio satellites during the ARRL ETP Teachers Institute in Dayton, Ohio on July 7th. He will be using AO27 on the 1515 EST pass. The equipment will be an ARROW and HT. The call will be W1AW/8. For those that make contact, if you would like a QSL, send your card to WA8SME, and he'll get you a card.

+ The Japan Aerospace Exploration Agency (JAXA) has released the final still images taken by the onboard High Definition Television (HDTV) from Kaguya, just before it completed its mission by impacting the moon on June 11, 2009. An entire series of images were taken with an interval of about one minute by the HDTV (Teltephoto) while Kaguya maneuvered its way to impact in Gill Crater. See: http://tinyurl.com/mfg32w click on the arrow in top left to navigate to the next photo. (via UniverseToday.com)

+ Launch images from LRO/LCROSS successfull liftoff can be found on-line at: http://tinyurl.com/n5vqab

+ Dutch journalists Govert Schilling and Jaap Meijers have built a Twitter page to let people know when a visible ISS pass is coming. To participate follow the Twitter account @twisst: http://twitter.com/twisst

+ Simulated contacts are being planned for four licensed astronauts during the week of June 29. Soichi Noguchi, KD5TVP, Timothy J. Creamer, KC5WKI, Doug Wheelock, KF5BOC and Satoshi Furukawa, KE5DAW are tentatively scheduled for these training sessions, which are terrestrial-based amateur radio contacts using Amateur Radio on the International Space Station (ARISS) equivalent equipment.

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that please keep in mind that another name for a boomerang that doesn't work is a stick.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

90. ANS-189 AMSAT News Service Special Bulletin - SuitSat-2 Transforms Into a Satellite

Newsgroup: rec.radio.amateur.space
Date: 2009-07-08 17:10:19 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002d01c9ffee$ef78f1f0$ce6ad5d0$@net>
Source record: 639
Cross-posted to: rec.radio.amateur.space,rec.radio.info

SB SAT @ AMSAT $ANS-189.01
SuitSat-2 Transforms Into a Satellite

AMSAT News Service Bulletin 189.01
>From AMSAT HQ SILVER SPRING, MD.
July 8, 2009
To All RADIO AMATEURS
BID: $ANS-189.01

Due to storage considerations on the International Space Station, the two surplus Orlan space suits in storage on the International Space Station were discarded via the Progress Cargo Vessel. One of these suits was to be used to house the electronics for the upcoming SuitSat-2 mission where the batteries were to be mounted inside the suit, solar panels attached to the extremities with the electronics, video cameras and antenna mounted on the helmet by the ISS crew prior to deployment during an EVA.

The Progress, with the suits included, was undocked from ISS this past week.

The ARISS International Team has been informed that there is still space available for shipment of the SuitSat-2 electronics on the projected cargo flight to the Space Station in January 2010 and the EVA scheduled for April 2010 still has a 'SuitSat-2' deployment scheduled.

Consequently, the AMSAT team developing SuitSat-2 electronics on behalf of ARISS International is focusing on completing development in anticipation that deployment will still take place in Spring 2010 using a new structure to house it. In addition, the experiment being developed by Russia's Kursk State University is still expected to be integrated into the electronics once the US produced equipment is delivered to Russia this fall. Discussions are currently taking place between Russian ARISS members and the AMSAT project managers concerning the design of the new structure and where it will be constructed with these decisions to be made in the next few weeks.

The AMSAT team building the electronics is meeting July 10-12 in Phoenix to initiate integration testing of all of the components built in the US with subsequent testing to continue through the remainder of the summer in anticipation of shipping equipment to Russia in the fall.

The removal of the Orlan space suits from ISS removes the 'Suit' component of this deployment and at some point a new project name will be used to reflect the change in configuration. However, the significant importance of this project to both ARISS and AMSAT is not diminished.

ARISS sees this mission as an important component of education out-reach as it will provide an opportunity for students around the world to listen for recorded greetings from space as well as learn about tracking spacecraft in orbit.

Meanwhile, the deployment of SDX (Software Defined Transponder), the associated receiver and transmitter modules, and control electronics is a critical milestone for AMSAT as this upcoming flight provides an opportunity to flight test the next generation of spacecraft hardware. Lessons learned from this deployment will be applied to future flight opportunities as AMSAT moves towards a 'modularization approach' to spacecraft development with the expectation the future spacecraft missions will utilize a derivative of SDX and the associated hardware.

[ANS thanks AMSAT VP-Manned Spaceflight Will Marchant, KC6ROL for the above information]

/EX

91. Radio Meteor Obs. Bull. June 2009

Newsgroup: rec.radio.amateur.space
Date: 2009-07-08 19:35:16 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <00445b2d$0$5128$c3e8da3@news.astraweb.com>
Source record: 640
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 191 of June 2009 (78 K) is available now as

http://www.rmob.org/rmobtext/rmob0906.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

92. WSR-191 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-07-11 12:58:47 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000f01ca0227$4c3a9c10$e4afd430$@net>
Source record: 641
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-1914.S1
WSR 191 Part 1 07/10/2009

AMSAT NEWS SERVICE BULLETIN 191.S1
FROM AMSAT HQ SILVER SPRING, MD, July 10, 2009
TO ALL RADIO AMATEURS
BID: $ANS-191.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[07032009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-191.S2
WSR 191 Part 2 07/10/2009

AMSAT NEWS SERVICE BULLETIN 191.S2
FROM AMSAT HQ SILVER SPRING, MD, July 10, 2009
TO ALL RADIO AMATEURS
BID: $ANS-191.S2

CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL

=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]

=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[07032009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM

145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]

=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL

=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v

BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[06122009]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-191.S3
WSR 191 Part 3 07/10/2009

AMSAT NEWS SERVICE BULLETIN 191.S3
FROM AMSAT HQ SILVER SPRING, MD, July 10, 2009
TO ALL RADIO AMATEURS
BID: $ANS-191.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]

=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-191.S4
WSR 191 Part 4 07/10/2009

AMSAT NEWS SERVICE BULLETIN 191.S4
FROM AMSAT HQ SILVER SPRING, MD, July 10, 2009
TO ALL RADIO AMATEURS
BID: $ANS-191.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

93. WSR-198 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-07-20 17:14:33 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001e01ca095d$818f2150$84ad63f0$@net>
Source record: 642
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-198.S1
WSR 198 Part 1 07/17/2009

AMSAT NEWS SERVICE BULLETIN 198.S1
FROM AMSAT HQ SILVER SPRING, MD, July 17, 2009
TO ALL RADIO AMATEURS
BID: $ANS-198.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[07032009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

STS-127 Space Shuttle Endeavour:
Commander: Mark Polansky
Pilot: Douglas Hurley
Mission specialist: Christopher Cassidy
Mission specialist: Thomas Marshburn KE5HOC
Mission specialist: David Wolf KC5VPF
Mission specialist: Julie Payette
Mission specialist: Timothy Kopra KE5UDN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07172009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-198.S2
WSR 198 Part 2 07/17/2009

AMSAT NEWS SERVICE BULLETIN 198.S2
FROM AMSAT HQ SILVER SPRING, MD, July 17, 2009
TO ALL RADIO AMATEURS
BID: $ANS-198.S2

CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[07032009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

STS-127 Space Shuttle Endeavour:
Commander: Mark Polansky
Pilot: Douglas Hurley
Mission specialist: Christopher Cassidy
Mission specialist: Thomas Marshburn KE5HOC
Mission specialist: David Wolf KC5VPF
Mission specialist: Julie Payette
Mission specialist: Timothy Kopra KE5UDN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11

Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07172009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-198.S3
WSR 198 Part 3 07/17/2009

AMSAT NEWS SERVICE BULLETIN 198.S3
FROM AMSAT HQ SILVER SPRING, MD, July 17, 2009
TO ALL RADIO AMATEURS
BID: $ANS-198.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1

Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]

=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT

Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====

MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT

Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781

Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6

Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-198.S4
WSR 198 Part 4 07/17/2009

AMSAT NEWS SERVICE BULLETIN 198.S4
FROM AMSAT HQ SILVER SPRING, MD, July 17, 2009
TO ALL RADIO AMATEURS
BID: $ANS-198.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1

Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728

FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

94. ANS-200 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-07-20 17:15:30 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001f01ca095d$a7210cd0$f5632670$@net>
Source record: 643
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-200

ANS is a free, weekly, news and information service
of AMSAT North America, The Radio Amateur Satellite
Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share
an active interest in designing, building, launching
and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* BOD Ballot Information
* Walter Cronkite, KB2GSD, SK
* OSCAR 5 In Print
* AO-51 Commemorative QSL
* Solar Eclipse 22nd July
* ARISS Schedule

SB SAT @ AMSAT $ANS-200.1
BOD Ballot Information

AMSAT News Service Bulletin 200.1
>From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-200.1

To All AMSAT Members: You will be receiving an envelope
with important AMSAT information along with your ballot.
PLEASE keep and read all information except the ballot
- there is an error on it (It says vote for three candidates
instead of four). Within the next few days,
we will be sending a new ballot in an envelope marked
"corrected ballot". The new ballot will be a different
color and have the word "corrected" on the top.
That is the one you need to return.

[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-200.2
Walter Cronkite, KB2GSD, SK

AMSAT News Service Bulletin 200.2
From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-200.2

The Amateur Radio community has lost one of its ambassodors.
Walter Cronkite, amateur call KB2GSD, was a spokesman for the hobby. He
Narrated the "Amateur Radio Today" production by the ARRL. The
ARRL has presented him with many awards.
His love of Space science and the NASA Moon Missions won our
Admiration. His coverage of those showed his interests in technology. Who
Doesn't remember listening to those exciting broadcasts of the Moon
Missions?
Mr. Cronkite had won NASA's respect by winning one of their prestigious
"Ambassodor of Exploration Awards" given by them to the only "outsider"
by NASA.
His contributions and support of Amateur Radio will be remembered
For many years to come.
Note: A prepared special 14 minute audio only tribute to
Walter Cronkite hosted by Mark Abramowicz, NT3V,
that you can download and play from the website at www.arnewsline.org.

[ANS thanks William Pasternack, WA6ITF, for the above information]

/EX

SB SAT @ AMSAT $ANS-200.3
OSCAR 5 In Print

AMSAT News Service Bulletin 200.3
From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-200.3

The Oscar 5 satellite built by Australian Radio Amateurs
at the end of the 60's is mentioned in the latest issue
of SatMagazine.

The July/August issue of SatMagazine covers the Australian
space program and mentions the work of Australian Radio
Amateurs who built Oscar 5. The article on page 59 includes
a picture of Oscar 5 which carried transmitters on 29.450 MHz
and 144.050 MHz and was launched on January 23, 1970, into
an orbit of 1435 x 1481 km with an inclination of 102.0 degrees.

Ther July/Aug 2009 issue of SatMagazine
is at http://www.satmagazine.com/2009/SatMag_JulAug09.pdf

SatMagazine
http://www.satmagazine.com/

[ANS thanks Trevor, M5AKA, for the above information]
/EX

SB SAT @ AMSAT $ANS-200.4
AO-51 Commemorative QSL

AMSAT News Service Bulletin 200.4
From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-200.4

News release July 16, 2009:

AMSAT-NA will mark the 40th anniversary of the first manned lunar landing with a special event on AO-51. AO-51 will transmit a message commemorating the event Monday, July 20 during evening passes in the U.S. and Europe. The message will be transmitted on the 435.300 MHz FM downlink and will contain a Robot 36 SSTV image as well as a voice message. A special AO-51 QSL will be available to those who copy the downlink. Send QSL requests marked "Apollo 11" with SASE to the AMSAT office at 850 Sligo Ave. Suite 600, Silver Spring, MD 20910.

[ANS thanks Drew, KO4MA, for the above information]

/EX

SB SAT @ AMSAT $ANS-200.5
Solar Eclipse 22nd July

AMSAT News Service Bulletin 200.5
From AMSAT HQ SILVER SPRING, MD.
June 21, 2009
To All RADIO AMATEURS
BID: $ANS-200.5

Solar eclipse is visible at Asia and Pacific on
22nd July. Very limited area is able to see total
solar eclipse.
Many amateur satellites pass above the solar eclipse
area. Electric power generated by solar cells will show
very interesting behavior under solar eclipse. How about
collecting telemetry and ploting solar cell power condition?
Temperature may also show interesting look.

I checked the telemetry transmitting satellite orbit
around Japan. The following satellites pass above
solar eclipse area.
COMPASS-1, FO-29, CO-66, CO-58, DO-64, STARS,

PRISM, SOHLA-1, AO-27, NO-44
There is something to be said for DO-64 condition.
Will DO-64 stop transmitting telemetry under the
solar eclipse?
If AO-27 store telemetry as WOD, WOD shows complete
solar eclipse condition.

Let's try to collect telemtry under solar eclipse!

solar eclipse info
http://eclipse.gsfc.nasa.gov/SEmono/TSE2009/TSE2009.html

[ANS thanks Masa, JN1GKZ for the above information]

/EX

SB SAT @ AMSAT $ANS-200.6
ARISS Schedule

AMSAT News Service Bulletin 200.6
From AMSAT HQ SILVER SPRING, MD.
July 13, 2009
To All RADIO AMATEURS
BID: $ANS-200.6

1. ARISS Contact Between Koichi Wakata and Mugegawa Junior High

On Saturday, July 11, students from Mugegawa Junior High School participated

in an Amateur Radio on the International Space Station (ARISS) contact with JAXA astronaut Koichi Wakata, KC5ZTA. Wakata answered 17 questions posed to him by the students. Over three hundred parents and guests attended the event,
which was covered by five newspapers and a television station.

2. ARISS Contact Held with Technopolis, Belgium

An Amateur Radio on the International Space Station (ARISS) contact was held

between ESA astronaut Frank De Winne, ON1DWN on the ISS and TechnopolisR in Mechelen, Antwerpen, Belgium. The contact took place on Saturday, July 11 via
telebridge station LU8YY in Argentina. Fourteen questions were asked and answered
as an audience of 200 looked on. Belgian astronaut Dirk Frimout was present and gave a talk on space. Three radio and television stations and two newspapers covered the event. The contact audio was fed into the Internet Radio Linking Project (IRLP) and EchoLink servers, providing additional outreach.

3. Successful ARISS Contact with Euro Space Center

On Sunday, July 12, youth visiting the Euro Space Center in Belgium during Air and Space Day participated in an Amateur Radio on the International

Space Station (ARISS) contact with ESA astronaut Frank De Winne, ON1DWN on the
ISS. The contact was made possible through telebridge station WH6PN in Hawaii.
Twenty-four students asked one question each of the astronaut in front of an

audience of 500 guests. The contact audio was fed into the Internet Radio Linking Project (IRLP) and EchoLink servers, providing additional outreach.

4. SuitSat-2 Becomes a Satellite

The Orlan spacesuit that was to house SuitSat-2 amateur radio equipment was recently discarded on a Progress due to space limitations on the ISS. Work continues on the satellite hardware with plans to use a different configuration for deployment. The Amateur Radio on the International Space Station (ARISS) team plans to meet delivery and launch dates for an EVA deployment in April 2010. For more information,
see: http://www.amsat.org/amsat-new/index.php

5. ARISS Satellite Meeting Held

The Amateur Radio on the International Space Station (ARISS) U.S. team met in Phoenix, Arizona over the July 10 - 12 weekend. The team performed integration tests on various components of the SuitSat-2 hardware.

6. Astronaut Training Status

A training session is planned this week for astronaut Tracy Caldwell to prepare her for her amateur radio license exam. Caldwell is scheduled to fly with Expedition 23 in April 2010.

7. AMSAT Videos of Dayton Hamvention Available for Viewing

The Radio Amateur Satellite Corporation (AMSAT) has posted videos taken at the Dayton Hamvention 2009. Several Amateur Radio on the International Space Station (ARISS) presentations are available for viewing. (ARISS Status, Will Marchant; Columbus Module Antennas, Lou McFadin; SuitSat-2, Gould Smith; Spaceflight Participant, Richard Garriott) See:
http://www.amsat.org/amsat-new/information/videoNews.php

8. ARISS News on Amateur Radio Newsline

On July 10, Amateur Radio Newsline Report 1665 provided a status on the Amateur Radio on the International Space Station (ARISS) SuitSat-2 program. To view "Ham Radio in Space: SuitSat-2 Loses the Suit Part but will Still Fly," see: ftp://ftp.arnewsline.org/quincy/News-A/news.txt

[ANS thanks Carol, KB3LKI, for the above information]

/EX

73,
This week's ANS Editor,
Dee Interdonato, NB2F

95. WSR-205 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-07-25 21:10:22 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001ca0d6c$4b9cd980$e2d68c80$@net>
Source record: 644
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-205.S1
WSR 205 Part 1 07/24/2009

AMSAT NEWS SERVICE BULLETIN 205.S1
FROM AMSAT HQ SILVER SPRING, MD, July 24, 2009
TO ALL RADIO AMATEURS
BID: $ANS-205.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[07032009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

STS-127 Space Shuttle Endeavour:
Commander: Mark Polansky
Pilot: Douglas Hurley
Mission specialist: Christopher Cassidy
Mission specialist: Thomas Marshburn KE5HOC
Mission specialist: David Wolf KC5VPF
Mission specialist: Julie Payette
Mission specialist: Timothy Kopra KE5UDN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07172009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-205.S2
WSR 205 Part 2 07/24/2009

AMSAT NEWS SERVICE BULLETIN 205.S2
FROM AMSAT HQ SILVER SPRING, MD, July 24, 2009
TO ALL RADIO AMATEURS
BID: $ANS-205.S2

CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[07032009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Koichi Wakata KC5ZTA
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

STS-127 Space Shuttle Endeavour:
Commander: Mark Polansky
Pilot: Douglas Hurley
Mission specialist: Christopher Cassidy
Mission specialist: Thomas Marshburn KE5HOC
Mission specialist: David Wolf KC5VPF
Mission specialist: Julie Payette
Mission specialist: Timothy Kopra KE5UDN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11

Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07172009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-205.S3
WSR 205 Part 3 07/24/2009

AMSAT NEWS SERVICE BULLETIN 205.S3
FROM AMSAT HQ SILVER SPRING, MD, July 24, 2009
TO ALL RADIO AMATEURS
BID: $ANS-205.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1

Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]

=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT

Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====

MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT

Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781

Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6

Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-205.S4
WSR 205 Part 4 07/24/2009

AMSAT NEWS SERVICE BULLETIN 205.S4
FROM AMSAT HQ SILVER SPRING, MD, July 24, 2009
TO ALL RADIO AMATEURS
BID: $ANS-205.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1

Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728

FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

96. ANS-207 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-07-26 03:10:46 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000801ca0d9e$a2fa7fc0$e8ef7f40$@net>
Source record: 645
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-207

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:

* Important Reminder AMSAT Board of Directors Ballots
* AMSAT-UK Announces FUNcube Amateur Radio Satellite
* SuitSat-2 Demo at the Central States VHF Society Conference
* Special Events Stations Commemorate Apollo 11 40th Anniversary
* STS-127 To Deploy Dual Picosats on July 30
* SwissCube Delivery to India, Three Additional CubeSats Planned
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-207.01
Important Reminder AMSAT Board of Directors Ballots

AMSAT News Service Bulletin 207.01
>From AMSAT HQ SILVER SPRING, MD.
July 26, 2009
To All RADIO AMATEURS
BID: $ANS-207.01
To All AMSAT Members: As noted in last week's ANS, the original Board of Directors ballot that was mailed earlier this month to all AMSAT members and included with important AMSAT information has an error on it, stating "select no more than three" with five candidates listed. Replacement ballots of a different color have now been mailed to all AMSAT members in an an envelope marked "corrected ballot" and the new ballot states "Select no more than four" with five candidates listed as well as marked with "corrected ballot".

Please note that the none of the original ballots will be counted, so if you mailed the original ballot to AMSAT, you must also mail the corrected ballot in order to have your ballot be counted. The due date for submitting ballots has not changed and the corrected ballot must be received at the Silver Spring, MD no later than the close of business on September 15, 2009.

[ANS thanks AMSAT HQ for the above information]

/EX

SB SAT @ AMSAT $ANS-207.02
AMSAT-UK Announces FUNcube Amateur Radio Satellite

AMSAT News Service Bulletin 207.02
>From AMSAT HQ SILVER SPRING, MD.
July 26, 2009
To All RADIO AMATEURS
BID: $ANS-207.02

AMSAT-UK has announced a new amateur satellite project - FUNcube. The project has received major initial funding from the Radio Communications Foundation (RCF) and is expected be developed in collaboration with ISIS-Innovative Solutions in Space BV.

FUNcube is an educational single cubesat project with the goal of enthusing and educating young people about radio, space, physics and electronics. It will support the educational Science, Technology, Engineering, Maths (STEM) initiatives and provide an additional resource for the GB4FUN Mobile Communications Centre.

The target audience consists of primary and secondary school pupils and FUNcube will feature a 145 MHz telemetry beacon that will provide a strong signal for the pupils to receive. It is planned to develop a simple receiver board that can be connected to the USB port of a laptop to display telemetry in an interesting way. The satellite will contain a materials science experiment, from which the school students can receive telemetry data which they can compare to the results they obtained from similar reference experiments in the classroom.

FUNcube is the first cubesat designed to benefit this group and is expected to be the first UK cubesat to reach space.

It is anticipated FUNcube will be launched into a Sun Synchronous Low Earth Orbit about 600-700km above the earth using one of the many launch opportunities that exist for Cubesat missions. In such an orbit the satellite passes over Europe approximately 3 times in the morning, and 3 in the evening, every day, perhaps allowing the morning passes to be used for educational purposes and the evening passes for Amateur Radio communications.

FUNcube will carry a UHF to VHF linear transponder that will have up to 1 watt and which can be used by Radio Amateurs worldwide for SSB and CW communications. Measuring just 10 * 10 * 10 cm, and with a mass

of less than 1kg, it will be the smallest ever satellite to carry a linear transponder and the choice of frequencies will enable Radio Amateurs to use their existing VO-52 or DO-64 station.

A key feature of the satellite is the absence of an On-Board Computer. For reliability and maximum power efficiency, the design has been kept as straight-forward as possible with satellite control being achieved using simple commands. See the AMSAT-UK FUNcube webpage at:http://www.uk.amsat.org/content/view/696/68/

AMSAT-UK has more than 350 individual members and is one of more than 20 such groups worldwide. AMSAT-UK teams have provided hardware for more than 10 satellites over the past 35+ years including SSETI Express in 2005.They are presently involved with the development of hardware and software for a number of satellite projects including the European Student Earth Orbiter (ESEO), P3E, SUITSAT2, the Columbus module on the ISS and also the GENSO Ground station network.

The Radio Communications Foundation is a Registered Charity (Number 1100694) set up in 2003 to fund efforts to bring the wonders of radio into the classrooms, universities and any other public place where hands on demonstration can influence understanding. The RCF funding for FUNcube is made possible through the generous bequest from a "silent key" who wanted the hobby that he loved brought to the attention of others.

AMSAT-UK: http://www.uk.amsat.org/
Radio Communications Foundation: http://www.commsfoundation.org/
GB4FUN: http://www.gb4fun.org.uk/
FUNcube contact: Graham Shirville G3VZV (g3vzv@amsat.org)

[ANS thanks AMSAT-UK for the above information]

/EX

SB SAT @ AMSAT $ANS-207.03
SuitSat-2 Demo at the Central States VHF Society Conference

AMSAT News Service Bulletin 207.03
>From AMSAT HQ SILVER SPRING, MD.
July 26, 2009
To All RADIO AMATEURS
BID: $ANS-207.03

On July 24-25 the Central States VHF Society hosted their 43rd Conference in the Chicago area. The event attracted radio amateurs interested in experimentation with weak signal VHF/UHF, microwave, terrestrial and space communications, and EME.

SuitSat-2 System Engineer Gould WA4SXM was at the Conference with a functioning prototype of the SuitSat-2 hardware, antennas, and initial software. The success of the Phoenix ARISS system integration meeting held July 10-12 was evident as SuitSat-2 trans-

mitted live signals everyone at the Conference could monitor on 145.950 MHz.

The SSTV subsystem was transmitting live pictures in Robot36 mode captured by the cameras. Reminder: if your computer SSTV capture software such as MMSSTV is functional viewing existing terrestrial SSTV transmissions you will be ready to receive SuitSat-2 video.

Gould also gave a presentation to a full house during which he discussed SuitSat-2 architecture and software. The presentation, as well as the live display, included these subsystems:

+ Software Defined Radio Transponder
+ Internal Housekeeping Processor Board
+ Power Control Board
+ Interconnect Board
+ Safety Power Interlock
+ Flexible antennas

The SuitSat-2 team plans to deliver the completed flight system to Russia in December, 2009 with an EVA deployment planned for the Spring of 2010. Watch the AMSAT Journal for full details as system integration completes and SuitSat-2 moves toward orbit!

[ANS thanks whomever for the above information]

/EX

SB SAT @ AMSAT $ANS-207.04
Special Events Stations Commemorate Apollo 11 40th Anniversary

AMSAT News Service Bulletin 207.04
>From AMSAT HQ SILVER SPRING, MD.
July 26, 2009
To All RADIO AMATEURS
BID: $ANS-207.04

If you were fortunate to work the Amateur Radio special events stations that commemorated the 40th anniversay of the Apollo 11 landing on the moon here is a summary of the QSL information:

VE3MOON From the Canada Museum of Science and Technology
In celebration of the 40th anniversary of the first manned moon landing, the special event callsign VE3MOON will be operating from 14-27 July. The museum team plans to operate via AO-51, SO-50, VO-52, FO-29, and the ISS. QSL via Darin, VE3OIJ.

AO-51's 40th Anniversary Special Message
AMSAT-NA marked the 40th anniversary of the first manned lunar landing with a special event on AO-51. AO-51 transmited a special message commemorating the event on Monday, July 20. A special AO-51 SWL QSL is available to ground stations who copy the downlink. Send QSL requests marked "Apollo 11" with SASE to the AMSAT office at 850 Sligo Ave. Suite 600, Silver Spring, MD 20910.

Mark, K6HX posted recordings and SSTV images received during this
event on his web page at http://tinyurl.com/kn9bgm. Ed, KL7UW has
his recording at http://www.kl7uw.com/40th_apollo_message.wav.

Special Event Station K5E
The special call sign K5E was active on the satellites until July 24.
If you worked K5E you can claim a special QSL card donated by WA3MVQ.
QSL via Tim, N3TL with a standard size SASE.

EE Times prepared a July 20th special edition that tells the Lunar
Landing story from the viewpoint of a number of engineers. It can
be found on-line at: http://tinyurl.com/npklma. Page 44 features
comments by AMSAT member Steve Bible, N7HPR.

[ANS thanks VE3MOON, AO-51 Operations Team, K5E, and Tom K3IO for
the above information]

/EX

SB SAT @ AMSAT $ANS-207.05
STS-127 To Deploy Dual Picosats on July 30

AMSAT News Service Bulletin 207.05
>From AMSAT HQ SILVER SPRING, MD.
July 26, 2009
To All RADIO AMATEURS
BID: $ANS-207.05

The University of Texas at Austin announced this week they will
deploy a satellite in space on July 30, 2009 at 7:27 AM CDT via
the STS-127 Space Shuttle Picosatellite Launcher (SSPL).

BEVO1 is a 12.5 cm cube and 3 kg in mass. The purpose of the
mission is to collect data from NASA's DRAGON GPS receiver.

BEVO1 has two modes, data and beacon. The data mode is on
over most parts of the United States, and the rest of the time,
the satellite is in beacon mode. Also, anyone tracking BEVO1
can record what they hear at http://paradigm.ae.utexas.edu/ops.
The University of Texas also has additional information at:
http://www.utexas.edu/news/2009/06/09/picosatellite/

BEVO1 Downlink Information:

Beacon Mode
Downlink Freq: 437.325 MHz
Modulation: FM, 200mW, Morse Code, ~20 WPM

Data Mode
Downlink Freq: 437.325 MHz
Modulation:
GMSK, 1W, 9600 baud, AX.25 (default)
FM, 1W, Bell 202, AX.25

NASA describes DRAGONSat as an anticipated eight-year program with a launch of the satellites approximately every two years. The first three missions will test individual components and subsystems while the final mission will culminate with the successful docking of two satellites. Refer to http://tinyurl.com/m2blyc for additional mission information.

The University of Texas at Austin has developed BEVO1 and Texas A&M University has developed AggieSat-2 for this mission. Both satellites will perform the initial data acquition testing of the DRAGONSat program.

[ANS thanks Jahshan Bhatti at the University of Texas at Austin and Andy, W5ACM for the above information]

/EX

SB SAT @ AMSAT $ANS-207.06
SwissCube Delivery to India, Three Additional CubeSats Planned

AMSAT News Service Bulletin 207.06
>From AMSAT HQ SILVER SPRING, MD.
July 26, 2009
To All RADIO AMATEURS
BID: $ANS-207.06

The Southgate ARC webpage reports the SwissCube Amateur Radio satellite, and its integration team will shortly be leaving for the launch site in India. The SwissCube mission has a scientific and a technology objective to observe and take measurements of the airglow phenomena. The IARU has coordinated a downlink frequency of 437.505 MHz.

The Technical University of Berlin will launch their BeeSat cubesat project on this mission. The main objective of BeeSat is the on orbit verification of newly developed micro wheels for pico satellite applications. BeeSat will demonstrate the use of coin size micro wheels for the attitude control. This satellite is licensed to operate on 436.00 MHz.

University of Wuerzburg, Department of Computer Science will launch UWE-2 is to test a newly developed attitude determination system. Other experiments related to "IP in space" will be performed. These experiments follow on from the experiments of the previous satellite UWE-1. A AX25 and CW downlink on 437.385 MHz has been coordinated by the IARU.

The Istanbul Technical University will launch ITUpSAT on a mission to characterize a passive attitude control system and take earth observation pictures. Main communications will take place on frequencies outside the amateur satellite service, but a 100mW 70cm CW telemtry beacon is planned to operated on 437.325 MHz.

Space launches are technically challenging and are usually prone
to last minute changes, so the exact launch date for the PSLV is
still not known.

[ANS thanks Trevor, M5AKA, Southgate, and IARU Coordination pages
for the above information]

/EX

SB SAT @ AMSAT $ANS-207.07
Satellite Shorts From All Over

AMSAT News Service Bulletin 207.07
>From AMSAT HQ SILVER SPRING, MD.
July 26, 2009
To All RADIO AMATEURS
BID: $ANS-207.07

+ Congratulations to Andrew Koenig, KE5GDB upon winning the Newsline
Youth Ham of the Year Award! Amateur Radio on the International Space
Station (ARISS) Team member Nick Lance, KC5KBO, who does ham radio
mentoring of students at his local school, was pleased to learn that
his student, Andrew Koenig, KE5GDB, has won the Newsline Youth Ham
of the Year Award. ARISS was one of the main motivators for Andrew
to study for his license, and to stay licensed. He continued his
interest in space by helping with ARISS contacts and by being active
in ham satellite operations. (Via Carol Jackson, KB3LKI, ARISS Weekly
Report)

+ Full information for the 2009 Mid-Atlantic VHF Conference Saturday,
September 26 in Plymouth Meeting, PA is available on-line at:
http://tinyurl.com/mdrbxx (Packrats)

+ Replay of the Falcon-1 launch is available at:
http://www.youtube.com/watch?v=Mfdk_VZMjQI

+ Here's a science oriented web page that may be of interest to the
young visitors to your shack. Visit the NASA: Home and City site
http://www.nasa.gov/externalflash/nasacity/index2.htm to see how
space exploration impacts daily life.

+ John K8YSE says he will prepare special QSL cards from his Delaware
satellite operation July 11-12. Watch for his announcement via the
amsat-bb and his QRZ.com web page.

+ NASA has an interactive web site to allow you to explore the
Apollo 11 landing site:
http://www.nasa.gov/externalflash/apollo11_landing/index.html

+ An on-line HD video of the STS-127 launch is available at:
http://tinyurl.com/lqeqqo (UniverseToday.com)

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And, with that please keep in mind that because cows eat grass they're lawn mooers.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

97. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.space
Date: 2009-08-01 06:00:03 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1249106400@panix.com>
Source record: 646
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

98. get kelp

Newsgroup: rec.radio.amateur.space
Date: 2009-08-01 18:49:38 UTC
From: kb9rqz <mark@kb9rqz.com>
Message-ID: <f6906a26-23fc-4627-84a4-73da0028ab99@l31g2000vbp.googlegroups.com>
Source record: 647
Cross-posted to: rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space

On Aug 1, 2:00 am, r...@panix.com (rec.radio.amateur.moderated Admin)
wrote:
> Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)

please stop spaming and trolling for traffic

99. WSR-212 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-08-03 20:57:40 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001e01ca147d$0017fcc0$0047f640$@net>
Source record: 648
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-212.S1
WSR 212 Part 1 07/31/2009

AMSAT NEWS SERVICE BULLETIN 205.S1
FROM AMSAT HQ SILVER SPRING, MD, July 31, 2009
TO ALL RADIO AMATEURS
BID: $ANS-212.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[07032009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07312009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-212.S2
WSR 212 Part 2 07/31/2009

AMSAT NEWS SERVICE BULLETIN 212.S2
FROM AMSAT HQ SILVER SPRING, MD, July 31, 2009
TO ALL RADIO AMATEURS
BID: $ANS-212.S2

Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825MHz 1k2 AX.25
[07312009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825 MHz 1k2 AX.25
[07312009]
=====
BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====

CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM

145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[07032009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22

Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07312009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-212.S3
WSR 212 Part 3 07/31/2009

AMSAT NEWS SERVICE BULLETIN 212.S3
FROM AMSAT HQ SILVER SPRING, MD, July 31, 2009
TO ALL RADIO AMATEURS
BID: $ANS-212.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545

Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK

[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826

Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz

[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909

Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8

Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439

Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-212.S4
WSR 212 Part 4 07/31/2009

AMSAT NEWS SERVICE BULLETIN 212.S4
FROM AMSAT HQ SILVER SPRING, MD, July 31, 2009
TO ALL RADIO AMATEURS
BID: $ANS-212.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667

Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org

NNNN
/EX

100. ANS-214 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-08-03 20:58:35 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001f01ca147d$1ed89b60$5c89d220$@net>
Source record: 649
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-214

ANS is a free, weekly, news and information service of AMSAT North America,
The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* North Texas Balloon Launch Number 17
* Castor and Pollox Deployed From STS-127
* Amateur Radio Newsline 2009 "Young Ham of the Year" Announced
* DRAGONSat Deployed From STS-127
* Satellite Shorts From All Over
* ARISS Status - 27 July 2009

SB SAT @ AMSAT $ANS-214.01
North Texas Balloon Launch Number 17

AMSAT News Service Bulletin 214.01
From AMSAT HQ SILVER SPRING, MD.
August 2, 2009
To All RADIO AMATEURS
BID: $ANS-214.01

AMATEUR RADIO GROUP TO FLY BALLOON FLIGHT FROM HILLSBORO TEXAS AIRPORT

The next mission number 17, named ï¿½Summer Time Bluesï¿½, to be held by the
North
Texas Balloon Project (NTEXBP) is planned for launch about 8:30 am on August
8,
2009 from the municipal airport in Hillsboro, Texas, just south of Fort Worth
and Dallas. Back up date is August 15, 2009. Two payload packages containing

sensors and amateur radios will be carried to nearly 100,000 feet in about
90
minutes by a helium balloon and return via parachute in about 50 minutes.
Mobile recovery teams will use position reports from the onboard GPS and APRS
transmitter on 144.390 MHz and radio direction
finding techniques to recover the
payloads.

Pre-launch activities will begin about 7:00 am with the HF Launch Net on
7260
+/- 5 kHz, LSB beginning around 8:00 am. A cross band repeater will be activated soon after launch. Uplink is 445.800
MHz and downlink is 147.560 MHz.
Handheld VHF radios and scanners can receive
the downlink easily. At the peak
altitude ham radio operators from Texas, New Mexico, Oklahoma, Arkansas, Louisiana, and Kansas can contact each other using the cross band repeater.

The radios used normally have a range of about 5 to 10 miles, but that range
will be extended to about 500 miles at the peak altitude. At the peak altitude,
the curvature of the earth is visible. Digital video is recorded for later
playback. APRS packets transmit the balloon's location about once a minute.

NTEXBP's Tommy Davis said, "In past operations we did the launches for fun
and
the enjoyment of flight. It involves many different facets of amateur radio
and
thus a project that many types of amateur radio operators can enjoy together.ï¿½
There is also an educational component utilized by scouting groups, because
it
involves orienteering and can be counted toward several different merit badges,
as well as by teachers for science experiments. Davis said, ï¿½Area scout
troops
are invited along with all that are interested.ï¿½

In the event of unfavorable weather or poor jet stream conditions, the launch

will occur at a later date. Be sure to check www.ntexbp.org or
www.w5sjz.net
and other Ham Radio forums and news sources for later information.

The public is invited to come out to the
Hillsboro Municipal Airport, located at
Exit 3 on Interstate Highway 35W, to watch the launch.

North Texas Balloon Project is a group of amateur (HAM) radio operators
from
Fort Worth and Dallas and has launched balloons from Cleburne, Clifton,
and
Hillsboro airports since 1991. This is the first
launch during this year and is
funded by the amateur radio operators associated with the North Texas
Balloon
Project.

Operatorï¿½s and Technical Data to follow at www.ntexbp.org or
www.w5sjz.net.
Reports, questions, APRS and other data may be sent to NTEXBP by
emailing
webmaster@ntexbp.org .

Please forward to interested Hams and ham communities. I would also
appreciate
any announcement that could be made on local
repeaters during allotted calls for
announcements. Thanks as always.

[ANS thanks Larry, K5PHD, for the above information]

/EX

SB SAT @ AMSAT $ANS-214.02
Castor and Pollox Deployed From STS-127

AMSAT News Service Bulletin 214.02
From AMSAT HQ SILVER SPRING, MD.
August 2, 2009
To All RADIO AMATEURS
BID: $ANS-214.02

Castor and Pollox, two satellites in the Atmospheric Neutral Density
Experiment
(ANDE) program were successfully deployed from STS-127 after it undocked
from
the International Space Station

The ANDE mission consists of two spherical spacecraft fitted with
retro-reflectors for satellite laser ranging (SLR). The constant and
well-determined cross section and surface properties of the ANDE
spacecraft

provide an ideal set of objects for monitoring atmospheric drag and the calibration of space surveillance network (SSN) assets both radar and optical.

Castor
Castor is a 19 inch diameter aluminum sphere with a mass of 63 kg. The satellite has several different types of sensors. There are two main sensors, a Neutral particle wind and temperature spectrometer and an ion mass
spectrometer. A group of college students designed and built a MEMS sensor
payload to test
some commercial gyroscopes and a magnetometer. There are also six light sensors
and six temperature sensors mounted in the satellite hemispheres.

Pollox
The Pollux satellite was originally to be a passive satellite with retroreflectors for laser ranging. It has been
turned into a high school student
project involving several schools in the Fairfax County, Virginia area. The electronics is based on cubesat hardware developed at the Naval Research
Laboratory and Stensat Group LLC.

The communications board contains the transmitter and receiver. The transmitter
operates at 2 meters and can put out up to 1 watt of signal. Power level is
adjustable. The transmitter can operate at 1200
baud AFSK and 9600 baud FSK. The
transmitter uses the AX.25 protocol. An experimental FX.25 protocol will be
tested that adds forward error correction capability to the AX.25 protocol
and
still allows typical TNCs to decode the packets.

Both satellites will transmit on 145.825 MHz. Additional details about the
telemetry format, as well as the FX.25 and GMSK experiments can be found at
https://goby.nrl.navy.mil/ANDE/Main.html

[ANS thanks Ivan, KD4HBO, for the above information]

/EX

SB SAT @ AMSAT $ANS-214.03
Amateur Radio Newsline 2009 "Young Ham of the Year" Announced

AMSAT News Service Bulletin 214.03
From AMSAT HQ SILVER SPRING, MD.

August 2, 2009
To All RADIO AMATEURS
BID: $ANS-214.03

"Wow! Oh, my God. All my friends here at Seabase are going to be really impressed. Oh, my God!"

And, that's how it sounded when we caught up with Andrew Koenig, call letters KE5GDB, by cellphone at the Boy Scouts of America Seabase in Key West, Florida, where he had just arrived with members of Troop 848 from Houston for a week of scuba diving adventures.

The Life Scout, who is just shy of his 16th birthday, is working to earn the Eagle rank and was ecstatic to learn he had been chosen for special recognition by the Amateur Radio Newsline. Before telling him he had been selected as the Young Ham of the Year, we asked Andrew how he might feel if he were to receive such an award. He said it would be a nice honor to share with his mentors, including his award nominator Nick Lance, call letters KC5KBO, who has helped several NASA astronauts earn their ham tickets.

"Young Ham of the Year would probably go in the book of things that I've done in ham radio that they are really impressed with," Andrew said. "It would just mean a lot to me.

"Nick Lance, he hasn't really been pushing me to do anything. A lot of the stuff I discover on my own. But, he's one of the big roles, one of the key aspects in ham radio and it would give him a really good feeling to know that one of his students went on to get youth ham of the year."

Andrew holds a General class license and passed the test for his first ticket back in 2005 while a sixth-grader at the Westbrook Intermediate School in Houston where Lance - who is retiring in August from the Johnson Space Center - teaches an amateur radio license class.

Andrew is the son of Joe and Lauri Koenig of Houston. Joe holds the call letters KE5JQA and got licensed as a result of Andrew's interest. Andrew also has a younger brother, Kyle.

Among the achievements Andrew has accomplished is helping with an Amateur Radio on the International Space Station (ARISS) contact at the Westbrook Intermediate School.

"I actually helped test a lot of the equipment for the contact, since it was a telebridge contact," Andrew recalled. "The station that was actually

contacting the ISS was in California, I believe.

"And, we were in Clear Lake, Texas. So, for some reason the phone patch wasn't working properly. So, I had to actually go into one of the school phones and test that - I think about 15 minutes worth of testing before the
contact started. And, finally right on time, we got it going again and everything was working just fine."

The contact with Astronaut Clay Anderson, who holds the ham radio call sign
KD5PLA, was a success - thanks to Andrew.

Andrew also helped facilitate a terrestrial contact between Astronaut Chris
Hadfield (ham radio call letters KC5RNJ and VA3OOG) and students at two Canadian schools using an Internet Repeater Linking Project (IRLP) node he
had built and placed in his bedroom closet.

Andrew, who enjoys VHF and UHF operations, tried and tried and was finally
successful in making his own contact with the space station using his handheld radios and portable directional antenna. He also has participated
in training astronauts at the Johnson Space Center on ARISS contacts with
schools, conducting simulated contacts with them, playing the role of the
school students.

Andrew has also been quite active with public service events through the Clear Lake Amateur Radio Club in suburban Houston where he is immediate past vice president. He is also a member of the Seabrook Citizen's Emergency Response Team.

Among his other achievements is creating his own bicycle mobile setup:

"I had tried putting a handi-talkie on my bike and I wasn't impressed with
the results because the rubber duck just didn't get out as far as I wanted
to," Andrew recalled. "A couple months before, I had ordered my first mobile rig (radio), the FT-7800.

"And, actually a couple weeks before I decided to put it all together on the bike, I had bought a brand new gel cell battery. So, I thought, you know, hey I've got this remote that came free with the radio, I've got the
battery, I've got an antenna, I got everything I need to make it happen. So, I just mounted it all on the bike with zip ties and I had 50 watts mobile on a bike for VHF and UHF."

That attracted some attention from CQ magazine, which was looking for photo
ideas for its 2008 calendar. Photographer Larry Mulvehill (WB2ZPI) visited
Houston and Andrew's bicycle mobile became the calendar photo for September
2008. He and his bedroom-closet IRLP node will be featured the cover of the
September 2009 issue of CQ magazine.

Andrew is going into his sophomore year at Clear Lake High School where he
is a member of the school's marching band. He is also into computers and
creating websites and he maintains his own website started when he was in
middle school. Check out www.thathamkid.com. It offers kid-friendly
information about ham radio, along with a jokes page and a lot more about
Andrew's activities in amateur radio - including his working satellites.

His mentor and nominator for this award, Nick Lance, KC5KBO, summed it up
best when he said: "Andrew has truly been an outstanding student of
amateur radio.....He is an inspiration both to his fellow students and to
hams of all ages."

Award Ceremony

The 2009 Amateur Radio Newslineï¿½ "Young Ham of the Year Award" will be
presented to Andrew Koenig, KE5GDB, on Saturday, August 15th, 2009 at the
Huntsville Hamfest in Huntsville, Alabama. As the 2009 "Young Ham of the
Year," Andrew will receive -- courtesy of Vertex-Standard -- an
expense-paid trip to the Huntsville Hamfest, along with a gift of Yaesu
brand ham radio equipment. CQ magazine will treat him to an expense-paid
week at Spacecamp Huntsville, and will present Andrew with a variety of CQ
products. Amateur Radio Newslineï¿½ will provide Andrew with a
commemorative plaque at the award ceremony. Once again, the cost of year's
plaque has been underwritten by Dave Bell (W6AQ), President of DBA
Entertainment Inc., Hollywood California. Heil Sound Ltd. will also be
presenting Andrew with a ham radio related gift.

The presentation of the award as a regular feature of the Huntsville
Hamfest has been made possible through the generosity and kindness of the
event's Planning Committee and the good offices of Huntsville Hamfest
Association Vice President Charlie Emerson, N4OKL. (See

http://www.hamfest.org)

This year's award ceremony will be hosted by Don Wilbanks (AE5DW) of Amateur Radio Newslineï¿½ along with representatives of corporate underwriters Vertex-Standard and CQ Communications, Inc.

Award Program Background

The Amateur Radio Newslineï¿½ "Young Ham of the Year" award (formerly the Westlink Report Young Ham of the Year Award) has been presented annually since 1986 to a licensed radio amateur (Ham) who is 18 years of age or younger and who has provided outstanding service to the nation, his/her community or the betterment of the state of the art in communications through the Amateur Radio hobby/service. It maintains a website will full information on the award program and background material located at http://www.arnewsline.org.

Award Sponsors

The award program is jointly sponsored by the Los Angeles, California-based Amateur Radio Newslineï¿½ with corporate support from Vertex-Standard Corporation of Cerritos, California and CQ Magazine of Hicksville, NY.

Since 1976, the Southern California-based Amateur Radio Newslineï¿½ and its predecessor, the Westlink Radio Network, have been providing radio amateurs around the world with up-to-the-minute news at no cost to them. Amateur Radio Newslineï¿½ also co-sponsors with the Quarter Century Wireless Association the "Roy Neal, K6DUE, Amateur Radio Mentoring Project" that serves as a clearinghouse to match radio amateurs in need of educational assistance on the hobby with those able to aid them. (See http://www.arnewsline.org)

The award's two corporate underwriters are world leaders in their respective areas of Amateur Radio product support.

Vertex-Standard Corporation is considered the trailblazer in the design, manufacture and distribution of high quality Vertex-Standard commercial two-way radio, monitoring and air-band communications equipment along with its Standard Horizon marine electronics line and Yaesu brand Amateur Radio equipment. The Yaesu name is known world-wide among ham radio aficionados and is synonymous with premium quality ham radio gear. (See http://www.vertexstandard.com)

CQ Magazine and its sister publications, CQ VHF, Popular Communications
and
WorldRadio Online, are published by CQ Communications, Inc., and are
considered the trend-setting publications serving todayï¿½s modern radio
amateur. (See http://www.cq-amateur-radio.com)

[ANS thanks Newsline for the above information]

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SB SAT @ AMSAT $ANS-214.04
DRAGONSat Deployed From STS-127

AMSAT News Service Bulletin 214.04
From AMSAT HQ SILVER SPRING, MD.
August 2, 2009
To All RADIO AMATEURS
BID: $ANS-214.04

DRAGONSat, the Dual RF Astrodynamic GPS Orbital Navigator Satellite, was
deployed from from the cargo bay of STS-127 after the shuttle departed
from
the
International Space Station. The DRAGONSat mission consists of two
satellites,
BEVO-1 and AggieSat-2.

BEVO-1 Downlink Information:
Beacon Mode
Downlink Freq: 437.325 MHz
Modulation: FM, 200mW, Morse Code, ~20 WPM

Data Mode
Downlink Freq: 437.325 MHz
Modulation:
GMSK, 1W, 9600 baud, AX.25 (default)
FM, 1W, Bell 202, AX.25
http://www.utexas.edu/news/2009/06/09/picosatellite/

AggieSat-2
http://aggiesat.org/Home
436.250MHz

AggieSat2 operating mode uses a proprietary modem
protocol as the main radio is a COTS data modem. It appears the only way
to decipher the code is to have a model MHX425 that can speak the
proprietary language. The radio data rate is actually at 19200 bps.

Initial indications are that it appears Bevo and AggieSat are stuck
together
right now. We are looking for aliveness confirmation until we can get
the
units
in a stable state.

[ANS thanks John, KE5JTG, for the above information]

/EX

SB SAT @ AMSAT $ANS-214.05
Satellite Shorts From All Over

AMSAT News Service Bulletin 214.05
From AMSAT HQ SILVER SPRING, MD.
August 2, 2009
To All RADIO AMATEURS
BID: $ANS-214.05

+ Presentations from the AMSAT-UK Colloquium can be viewed at:
http://www.uk.amsat.org/component/option,com_wrapper/Itemid,278/

+ The Gator Amateur Radio Club at University of Florida has posted
a tutorial for Downloading and Decoding CP6 satellite data using
the KPC-9612 Plus TNC, ICOM-910, SatPC32 and CPX Data Decoder Soft-
ware at http://www.gatorradio.org/CP6_tutorial.pdf
(Dr. Jay Garlitz, AA4FL)

+ The Houston AMSAT Net now being heard on Echolink in the conference
AMSAT Wednesday 0100UTC (Tuesday 8PM Central) has moved to a new
IRC Channel (Internet Relay Chat) at:
IRC Server: irc.radiochat.org
PORT: 6667
Group: #amsat

+ A video replay of the ANDE deployment from STS-127 can be seen at:
http://www.youtube.com/watch?v±9rIEZwTJU

+ European and Mediterranean stations may wish to be on the lookout
for Paulo, CT1ETE/P from grid IM57sc betweem August 1-7 on the
VO-52, AO-27, SO-50 and AO-51 satellites. Paulo plans to use a
Yaesu FT-817ND and Arrow Antenna.

+ Scientific American magazine has an article on-line, "Space Aged:
10 Spacecraft from Decades Past That Are Still Ticking". This
slide show includes AO-7: http://preview.tinyurl.com/kuryu9

+ A very nice interactive web site covering the entire Apollo 11
mission can be found at: http://www.wechoosethemoon.org/

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-214.06
ARISS Status - 27 July 2009

AMSAT News Service Bulletin 214.06
From AMSAT HQ SILVER SPRING, MD.
August 2, 2009
To All RADIO AMATEURS
BID: $ANS-214.06

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled for United Space School in Seabrook, Texas on Wednesday, August 5 at 13:47 UTC via telebridge station ON4ISS. The school is a once a year session of high school students that meets annually in the NASA/Clear Lake Area. These students come from around the world for a two week session, during which they stay with local host families while being mentored by astronauts, engineers, and scientists to design a mission to Mars as their team project. Class sessions are held at the University of Houston at Clear Lake. The contact will allow students to learn firsthand what the experience of spaceflight is like. They may ask questions about the skills needed to be an astronaut, the effects of weightlessness on the body, the food eaten, leisure activities, etc. They will use this knowledge in putting together their team project presentation, which they will present to the Houston space community at the end of their session.

2. De Winne has ARISS Contact with Portuguese Students

On Tuesday, July 21, an Amateur Radio on the International Space Station (ARISS) contact took place between students attending Escola E.B.2/3 de S. Romï¿½o do Coronado in Trofa, Portugal and Frank De Winne, ON1DWN on the ISS. De Winne answered 16 questions put to him by the students. Media coverage included two television stations and the event was highlighted in the evening news.

3. De Winne Participates in ARISS Contact with Ugo Guidi

On Thursday, July 23, children from Ugo Guidi in Forte dei Marmi, Lucca, Italy participated in an Amateur Radio on the International Space Station (ARISS) contact. Frank De Winne, ON1DWN answered twenty questions posed to him

by
the
students. The audio and video were available on: www.ondaforte.tv.
OndaForteTV, local media and newspapers covered the event.

4. ARISS Member Comments on Lunar Landing in EE Times

EE Times published a July 20 special edition that tells the lunar
landing
story
from the viewpoint of a number of engineers. Comments were included from
a
number of people who felt it was a very personal
event in their lives. Comments
by Amateur Radio on the International Space Station (ARISS) member Steve
Bible,
N7HPR may be found on page 44. See:
http://www.nxtbook.com/nxtbooks/cmp/eetimes_apollo_20090720/index.php

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT
Project
Funds, will be eligible to receive additional benefits. Application
forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

101. Radio Meteor Obs. Bull. July 2009

Newsgroup: rec.radio.amateur.space
Date: 2009-08-07 09:55:21 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <7fun75l7n3obur7i367dkb849najrjenmc@4ax.com>
Source record: 650
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 192 of July 2009 (83 K) is available now as

http://www.rmob.org/rmobtext/rmob0907.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

102. WSR-219 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-08-08 13:11:24 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000c01ca1829$b1e374c0$15aa5e40$@net>
Source record: 501
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-219.S1
WSR 219 Part 1 08/07/2009

AMSAT NEWS SERVICE BULLETIN 219.S1
FROM AMSAT HQ SILVER SPRING, MD, August 31, 2009
TO ALL RADIO AMATEURS
BID: $ANS-219.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[07032009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07312009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-219.S2
WSR 219 Part 2 08/07/2009

AMSAT NEWS SERVICE BULLETIN 219.S2
FROM AMSAT HQ SILVER SPRING, MD, August 07, 2009
TO ALL RADIO AMATEURS
BID: $ANS-219.S2

Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825MHz 1k2 AX.25
[07312009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825 MHz 1k2 AX.25
[07312009]
=====
BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[02212009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====

CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM

145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[07032009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22

Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07312009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-219.S3
WSR 219 Part 3 08/07/2009

AMSAT NEWS SERVICE BULLETIN 219.S3
FROM AMSAT HQ SILVER SPRING, MD, August 07, 2009
TO ALL RADIO AMATEURS
BID: $ANS-219.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545

Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK

[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826

Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz

[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909

Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8

Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439

Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-219.S4
WSR 219 Part 4 08/07/2009

AMSAT NEWS SERVICE BULLETIN 219.S4
FROM AMSAT HQ SILVER SPRING, MD, August 07, 2009
TO ALL RADIO AMATEURS
BID: $ANS-219.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667

Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org

NNNN
/EX

103. ANS-221 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-08-09 16:02:05 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000401ca190a$b4f31f80$1ed95e80$@net>
Source record: 502
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-221

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AMSAT North America, The Radio Amateur Satellite
Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share
an active interest in designing, building, launching
and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT-UK Colloquium Video and Powerpoint Available On-line
* CW Contest Milestone
* SpaceJam-3 Introduces Scouts to Amateur Radio in Space
* UT Austin Requests Help to Track BEVO1
* Satellite shorts
* ITAR Update
* ARISS Status - 03 August 2009

SB SAT @ AMSAT $ANS-221.01
AMSAT-UK Colloquium Video and Powerpoint Available On-line

AMSAT News Service Bulletin 221.01
From AMSAT HQ SILVER SPRING, MD.
August 9, 2009
To All RADIO AMATEURS
BID: $ANS-221.01

The videos of the presentations at this years successful AMSAT-UK
Colloquium in Guildford are now available to watch on the British
Amateur Television Club (BATC) website

Among the fascinating video presentations are:

+ FUNcube, the new AMSAT-UK linear transponder satellite project
by Graham Shirville G3VZV
+ AMSAT-NA Update by Drew Glasbrenner KO4MA
+ AMSAT-DL Update by Peter Guelzow DB2OS
+ Electronics and Teddy Bears: A Near-Space Adventure"
by Ed Moore M0TEK and Fergus Noble M0NBL, Cambridge University
+ Engineers Wanted! Tempting Teenagers to Explore Technology

by Garry Bulmer, Software Architect
+ Medium Earth Orbits by David Bowman G0MRF

All 18 videos can be seen at http://www.batc.tv/ Click on the "Film Archive" icon on the left to see all the videos available then select the video you wish to see (they start with 2009 AMSAT). To see the video full screen click on the icon at the bottom of the video player.

PDFs of the slides from the presentations can be found on the AMSAT-UK website at:
http://www.uk.amsat.org/component/option,com_wrapper/Itemid,278/

Thanks to the BATC for recording and editing the videos (a time consuming job) as well providing this invaluable video service at batc.tv for the Amateur Satellite community.

[ANS thanks Trevor, M5AKA for the above information]

/EX

SB SAT @ AMSAT $ANS-221.02
CW Contest Milestone

AMSAT News Service Bulletin 221.02
From AMSAT HQ SILVER SPRING, MD.
August 9, 2009
To All RADIO AMATEURS
BID: $ANS-221.02

FOR RELEASE: Immediate (August 4, 2009)

2008 CQ World Wide CW Contest Marks Major Milestone
for K0DQ Becomes Possibly the Only Person Ever
to Win All Six Major Ham Radio Contests

Scott Redd, K0DQ, operating the 2008 CW weekend of the CQ World Wide DX Contest from Aruba as P40Q, racked up over a million more points than his closest competitor in the Single-Operator Low Power Class, and became perhaps the only person ever to win single-op world championships in all six major ham radio DX contests.

"I don't know of anyone else" who has won all the major contests, said CQWW Contest Director Bob Cox, K3EST, in announcing the results, which will be published in the September issue of CQ magazine.

Scott had his first taste of contest victory back in 1966, as a young Navy officer posted to Uruguay and operating CX2CO in the phone weekend of the CQ World Wide DX Contest. Over the succeeding years, Scott worked his way through the Navy ranks to Vice Admiral and became Commander of the Fifth Fleet, then served as a civilian in the Iraq Coalition P rovisional Authority and as Director of the National

Counterterrorism Center before retiring in late 2007. But ham radio and contesting were never far away, and operating from Mexico as XE1IIJ in the early 1970s, Scott won single-op world championships in the CQWW Phone Contest, the ARRL DX Phone and CW Contests and the CQ WPX Phone Contest. Thirty years later, when his professional life permitted a little more hamming time, Scott added the WPX CW crown as P41P, operating from P43P's station in Aruba, in 2002. The only prize that eluded him -- until now -- was the CQWW CW.

"I've been trying like a son-of-a-gun to win (the) CQ World Wide CW," Scott commented in a 2008 interview with CQ. "I've come in number two, I've come in number three, but I've never won that one . so that's still my goal, every time I get close, in CQ World Wide CW, to win the world."

When informed that he had finally achieved that goal, K0DQ said, "I guess the message is if you keep at it long enough good things happen. In this case, four decades. It's been a great ride ... and it's still magic!"

CQ congratulates Scott -- already a member of the CQ Amateur Radio Hall of Fame, for his contesting achievements on top of all his other achievements.

[ANS thanks CQ Magazine for the above information]

/EX

SB SAT @ AMSAT $ANS-221.03
SpaceJam-3 Introduces Scouts to Amateur Radio in Space

AMSAT News Service Bulletin 221.03
From AMSAT HQ SILVER SPRING, MD.
August 9, 2009
To All RADIO AMATEURS
BID: $ANS-221.03

While the world was watching replays of the history making moon walk last week, dozens of Illinois Boy Scouts were taking their first steps toward space technology.

Space Jam 3 got off the ground last week with a high altitude balloon launch in Rantoul, Illinois. Space Jam is sponsored by DePauw University. It's purpose is to get Scouts into technology.

With assistance from the Vermillion County Amateur Radio Association, they were able to launch a helium filled balloon and use the cross band repeater for amateur radio contacts across the Midwest.

The longest radio contact occurred when the balloon reached the 99-thousand foot level. Two stations, one in Walbridge, Ohio the

other in Mexico, Missouri, completed a 470 mile QSO.

On the ground, Dave Cline KB9ZMF, said he thought 200 Boy Scouts were on the radios throughout the Space Jam. They also worked on high tech merit badges in Space Exploration, Aviation, Radio & Electronics and on Nuclear Science Composite Materials

Talking with Astronaut Robert Thirsk, VA3CSA, onboard the International Space Station, topped the weekend Space Jam activities. Space Jam Four is already being planned for August of 2010.

[ANS thanks Amateur Radio NewslineT Report 1668 - July 31 2009 for the above information]

/EX

SB SAT @ AMSAT $ANS-221.04
UT Austin Requests Help to Track BEVO1

AMSAT News Service Bulletin 221.04
From AMSAT HQ SILVER SPRING, MD.
August 9, 2009
To All RADIO AMATEURS
BID: $ANS-221.04

Last week STS-127 deployed DragonSat last week via its Space Shuttle Picosatellite Launcher (SSPL) system. Dragonsat was the designation for both Aggiesat2 and Bevo1 (DragonSat = AggieSat2 + BEVO1). They were ejected together from the SSPL, but it appears that they failed to separate.

As of ANS press time still no signals have been received from BEVO1, although beacon packets were heard from AggieSat2. The current theory on the state of the satellites is that only partial separation occurred. The inhibit switches keeping the satellites powered off have been closed, allowing the satellites to boot up. However, it is likely that the antennas did not deploy correctly, leaving the antennas disconnected from their respective transmitters. AggieSat2 transmits with 1W of power so it is easier to hear, while BEVO1 only transmits with 200mW during beacon mode.

AggieSat-2 transmits on 436.250 MHz using a proprietary data format.

BEVO1 Downlink Information:

Beacon Mode
Downlink Freq: 437.325 MHz
Modulation: FM, 200mW, Morse Code, ~20 WPM

Data Mode
Downlink Freq: 437.325 MHz
Modulation:
GMSK, 1W, 9600 baud, AX.25 (default)
FM, 1W, Bell 202, AX.25

UT Austin has also posted some pictures here:
http://paradigm.ae.utexas.edu/ops/

The 2-line tracking elements are:
DRAGONSAT
1 35690U 09038B 09217.97658609 +.00019083 +00000-0 +10072-3 0 00133
2 35690 051.6416 050.8490 0005305 104.3300 255.8301 15.80669917001027

[ANS thanks Karla Vega, KE5FKU for above information]

/EX

SB SAT @ AMSAT $ANS-221.05
Satellite shorts

AMSAT News Service Bulletin 221.05
From AMSAT HQ SILVER SPRING, MD.
August 9, 2009
To All RADIO AMATEURS
BID: $ANS-221.05

+AMSAT-UK's FUNcube Amateur Radio satellite project is featured in this week's Electronics Weekly email newletter and a longer article should appear in the next issue of the printed magazine which will also be available in digital format. See http://tinyurl.com/kmlssm for the article in the e-mail newsletter.

A free subscription to the digital version of Electronics Weekly maga-
zine is available at:
http://www.qssweb.co.uk/controlledcirc/main/index.aspx

Electronics Weekly Magazine is on-line at:
http://www.electronicweekly.com/

[ANS thanks Trevor, M5AKA for the above information]

+ Gould, WA4SXM reported the AO-51 Command Team has set the satellite into the following configuration:
FM repeater V/U (620 mW)
Uplink 145.920 MHz FM
Downlink 435.300 MHz FM

FM 9k6 digital (590 mW)
L band uplink on 1268.700 MHz
Downlink 435.150 MHz FM

+ AMSAT INDIA July News letter is available for download at
http://www.amsatindia.org/Newsletter or directly at
http://amsatindia.org/Newsletter/AmsatIndia-News-July-09.pdf

+ Makoto, JI5RPT will operate as JD1BLY and Yoshihi, JO1LVZ will operate as JD1BNF from Chichijima, Ogasawara Island, Japan be-
tween August 9-15. Satellite operation is planned. QSLs via homecalls. (DXNL DX Newsletter #1635 - Aug 5, 2009)

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SB SAT @ AMSAT $ANS-221.06
ITAR Update

AMSAT News Service Bulletin 221.06
From AMSAT HQ SILVER SPRING, MD.
August 9, 2009
To All RADIO AMATEURS
BID: $ANS-221.06

AMSAT Files CJ Requests with US State Department

The Radio Amateur Satellite Corporation filed four Commodity Jurisdiction (CJ) requests with the Directorate of Defense Trade Controls, US State Department last week. These requests ask that the four commodity groups that AMSAT provided support for AMSAT-DL's Phase 3-E project (SDX, IHU-3, Can-Do! Bus, and thermal design) be transferred to the Department of Commerce and be regulated under the Export Administration Regulations (EAR), removing them from ITAR (International Traffic in Arms Regulations) managed by the State Department's DDTC.

"Our CJ requests are based upon AMSAT's status as a not-for-profit corporation that adheres to 'open source' and ' public domain' principles where all of our technical activities are freely available through the Internet and publications, such as the "AMSAT Journal", observed AMSAT President Barry Baines, WD4ASW. "Given the open nature of our activities, the focus on scientific and educational purposes of our satellites, and lack of military applications, we believe that our activities in these areas are better suited for EAR rather than ITAR", said Barry.

The CJ requests will be reviewed by the Directorate of Defense Trade Controls as well as other federal agencies such as the Commerce Department and Department of Defense. AMSAT expects this review to take several months before a decision is made by DDTC whether to grant the request.

AMSAT's involvement with P3-E halted in 2006 due to concerns over possible ITAR violations. In January 2009, AMSAT filed a 'Voluntary Disclosure' with DDTC outlining AMSAT's activities with AMSAT-DL and AMSAT-UK on P3-E. In March 2009, DDTC advised AMSAT that ITAR violations did occur but that the case was being closed. AMSAT was admonished not to violate ITAR in the future. Subsequent to receiving DDTC's letter closing the case, AMSAT is now seeking a means to re-establish technical exchanges in support of P3-E while abiding under rules administered by the Commerce Department.

Further details on AMSAT's efforts to comply with ITAR while developing ways which will allow AMSAT satellite builders to work cooperatively with foreign nationals on amateur radio satellite projects will be available in the next issue of the "AMSAT Journal."

[ANS thanks, Barry, WD4ASW, for the above info]

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SB SAT @ AMSAT $ANS-221.07
ARISS Status - 3 August, 2009

AMSAT News Service Bulletin 221.07
From AMSAT HQ SILVER SPRING, MD.
August 9, 2009
To All RADIO AMATEURS
BID: $ANS-221.07

1. ARISS School Contact with Space School

An Amateur Radio on the International Space Station (ARISS) contact has been conducted with the United Space School in Seabrook, Texas on Wednesday, August 5 at 13:47 UTC via telebridge station ON4ISS. The school is a once a year session of high school students that meets annually in the NASA/Clear Lake Area. These students come from around the world for a two week session, during which they stay with local host families while being mentored by astronauts, engineers, and scientists to design a mission to Mars as their team project. Class sessions are held at the University of Houston at Clear Lake. The contact allowed students to learn firsthand what the experience of spaceflight is like. They will use this knowledge in putting together their team project presentation, which they will present to the Houston space community at the end of their session.

2. ARISS Contact with Hospital for Sick Children

On Thursday, July 30, patients of the Hospital for Sick Children in Toronto, Ontario, Canada participated in an Amateur Radio on the International Space Station (ARISS) contact. Children spoke with Astronaut Robert Thirsk, VA3CSA via telebridge station ON4ISS in Belgium and were able to ask 18 questions about life in space. Nearly 100 people were present for the event and the contact was broadcasted throughout the hospital on closed circuit television.

3. ARISS Contact Between Michael Barratt and Summer Playground Camp

Borough of New Providence, NJ, Summer Playground Camp in New Providence, New Jersey took part in an Amateur Radio on the International Space Station (ARISS) contact on Thursday, July 30. Ten children asked twenty questions of Expedition 19's Michael Barratt, KD5MIJ in front of an audience of approximately 100 people. This was a town sponsored summer camp activity for elementary school children (K - 6). The New Providence Amateur Radio Club (NPARC) has been involved with this type of camp for the last five years and regularly provides an introduction to amateur radio on the air by setting up HF and VHF stations so that campers may communicate with hams around the world. The

ARISS contact was an extension of this activity.

4. ARISS News on Amateur Radio Newsline

On July 31, Amateur Radio Newsline Report 1668 reported on the
Scout Space Jamboree in Rantoul, Illinois which included an
Amateur Radio on the International Space Station (ARISS) contact.
To view "Ham Radio in Space: Space Jam 3 in Illinois,"
see: ftp://ftp.arnewsline.org/quincy/News-A/news.txt

5. ARISS International Meeting Minutes Posted

The Amateur Radio on the International Space Station (ARISS) team
held its annual meeting at the European Space Research and
Technology Centre (ESTEC) in the Netherlands in June. Minutes
are now available and have been posted to the ARISS Web site.
See:
http://www.rac.ca/ariss/ARISS-I%202009%20Annual%20Mtg%20final%20edit%20minut
es.doc

6. ARRL Articles on FUNcube

The American Radio Relay League (ARRL) posted a Web story on
a new AMSAT-UK (Radio Amateur Satellite Corporation) satellite
project, FUNcube. FUNcube is a cubesat which will educate
youth about radio, electronics and physics. For more
information,
see: http://www.arrl.org/news/stories/2009/07/29/10985/?nc=1
The article may also be found in the ARRL Letter:
http://www.arrl.org/arrlletter/09/0731/

7. SuitSat-2 Demo

The Amateur Radio on the International Space Station (ARISS)
SuitSat-2 prototype was demonstrated at the Microchip
Master's conference which was held in Phoenix on
July 29 - August 1. See:
https://secure.microchip.com/usmasters/EveningEvents.aspx

8. De Winne Comments on Importance of Amateur Radio on ISS

During a recent Amateur Radio on the International Space Station
(ARISS) contact, Astronaut Frank De Winne was asked about the
importance of amateur radio on the ISS. He answered that the
radio was an important means of psychological support.
The audio of this contact may be found on the ARISS-Europe
Web site. See:
http://www.ariss-eu.org/2009_07_31.htm

9. ARISS Teleconference Minutes Posted

The Amateur Radio on the International Space Station (ARISS)
team held its monthly meeting on Tuesday, July 21. Agenda
items included a recap of the face-to-face meeting held in

the Netherlands and the status of the SuitSat-2 project.
The minutes have been posted.
See: http://www.rac.ca/ariss/arisstel2009-07-21.htm

10. MAI-75 Experiments Planned

MAI-75 (Moscow Aviation Institute) experiments are planned for
August 3 and 4. The VC-H1 unit will run in auto mode (Robot-36
and transmitting once every 3 minutes) and should be operational
on 145.800 MHz from approximately 0800-1600 UTC each day.
Information on the MAI-75 experiment is available
at: http://www.energia.ru/eng/iss/researches/education-26.html

11. Astronaut Training Status - Simulated Contact Scheduled

A simulated contact is planned for Thursday, August 6 at
approximately 13:30 UTC. The contact will be between Euro
Space Camp (ESC) and Paolo Nespoli, IZ0JPA. Audio should be
available on EchoLink and IRLP (Internet Radio Linking Project).
The training session is a terrestrial-based amateur radio contact
using Amateur Radio on the International Space Station
(ARISS) equivalent equipment.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

104. ANS-228 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-08-16 01:24:46 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001401ca1e10$529cfad0$f7d6f070$@net>
Source record: 503
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-228

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

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* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:

* Final Call For Papers AMSAT 2009 Space Symposium
* New Satellite Location Maps Available
* AO-51 Mode Change This Weekend
* South Africa's SumbandilaSat Launch Scheduled For September 15
* AMSAT Awards
* SimSat-4 Amateur Radio High Altitude Balloon Flight Announcement
* Satellite Shorts From All Over
* Invitation to Join Nova East Star Party ARISS Video Link
* Mars Orbit Getting Busier

SB SAT @ AMSAT $ANS-228.01
Final Call For Papers AMSAT 2009 Space Symposium

AMSAT News Service Bulletin 228.01
>From AMSAT HQ SILVER SPRING, MD.
August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.01

Symposium Proceedings Editor Daniel Schultz, N8GFV this week issued the final call for papers for the 2009 AMSAT Annual Meeting and Space Symposium to be held October 9 - 11 at the Four Points Sheraton Hotel at the Baltimore Washington Airport.

Proposals for papers, symposium presentations and poster presentations are invited on any topic of interest to the amateur satellite community. Since the subject of launch opportunities is driving most of what AMSAT can do in the near future, papers on possible cooperative projects with other space organizations would also be relevant. You might also consider doing a tutorial session on some technical subject that you are an expert on for the education of the rest of us.

Daniel requests a tentative title of your presentation as soon as possible, with final copy submitted by September 1, 2009 for inclusion in the printed proceedings. Abstracts and papers should be sent to Dan Schultz, N8FGV, at n8fgv@amsat.org.

[ANS thanks Daniel Schultz, N8FGV for the above information]

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SB SAT @ AMSAT $ANS-228.02
New Satellite Location Maps Available

AMSAT News Service Bulletin 228.02
>From AMSAT HQ SILVER SPRING, MD.
August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.02

A map showing the current satellite location for most of the amateur satellites are now available on the AMSAT web site.

>From the AMSAT front page, use the left hand side navigation, go to the 'Satellite Information' navigation box, then select 'Satellite Status'. You may also go directly there using this URL: http://www.amsat.org/amsat-new/satellites/status.php

Next click on an underlined satellite name in the left hand column. This will display a satellite summary, scroll to the bottom of the page and there will be a map showing the current location of that satellite and the illuminated and dark portions of the earth.

This feature can be used for a quick check of the satellite's location or to verify that your tracking program was setup correctly. Thanks to Rick, W2GPS and Chip, N2YO for providing this useful feature.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-228.03
AO-51 Mode Change This Weekend

AMSAT News Service Bulletin 228.03
>From AMSAT HQ SILVER SPRING, MD.

August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.03

On Sunday night Eastern Daylight Time (UTC - 4), around 0000Z
Aug 17 UTC AO-51 will switch to V/S FM repeater mode using the
145.880 MHz uplink and 2401.200 MHz downlink.

The AO-51 spin rate has slowed to over 7 minutes per revolution.
Eighteen months ago this was about 2.5 RPM. So, either you should
experience less to no fading during the pass or longer fades depend-
ing upon the satellite's orientation to your QTH. The AO-51 modes
team welcomes your observations, especially those providing actual
measured data.

Ground controllers probably will turn the L-Band digital uplink off,
to get the best power allocation to both transmitters. You will still
be able to receive the telemetry on 435.150 MHz.

[ANS thanks AO-51 Operations Team for the above information]

/EX

SB SAT @ AMSAT $ANS-228.04
South Africa's SumbandilaSat Launch Scheduled For September 15

AMSAT News Service Bulletin 228.04
>From AMSAT HQ SILVER SPRING, MD.
August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.04

The South African Amateur Radio Satellite Association (SA AMSAT)
reports that South Africa's second Amateur Radio satellite Sum-
bandilaSat is due to launch on September 15

AMSAT-SA reported that the satellite is already in Baikonur for
system integration and from where it will be launched on its journey
around the earth on a Soyuz rocket.

The Amateur Radio payload comprises a V/U FM voice transponder with
an uplink in the 2 meter band and a downlink in the 70cm band. It has
a parrot repeater (voice digipeater) and a voice beacon.

The Amateur Radio Payload will be operating in conjunction with the
University of Stellenbosch Software Defined Receiver project as it
will share the VHF receiver and UHF transmitter used by the SDR pro-
ject.

The SA AMSAT payload has been assigned the callsign ZS0SUM. Control
of the satellite's function from the ground will be accomplished by
transmitting CTCSS tones which will be announced. One tone will
will command the satellite in the transponder mode; another CTCSS
tone will command the satellite into the parrot repeater mode; and

if no tones are received for a period of time the satellite will
activate its voice beacon.

Frequencies of operation for the FM voice Transponder and Parrot are:
Uplink 145.880 MHz
Downlink 435.350 MHz

Additional information can be found at these links.
A paper presented by a Stellenbosch student on the SA satellite:
http://dataweek.co.za/article.aspx?pklArticleId=4118&pklCategoryId=42

University of Stellenbosch
http://www.sun.ac.za/

University of KwaZulu-Natal
http://www.ukzn.ac.za/

SunSpace
http://www.sunspace.co.za/

Southern African Amateur Radio Satellite Association (SA AMSAT)
http://www.amsatsa.org.za/

[ANS thanks Trevor, M5AKA, The SouthGate Web site, and SA-AMSAT for
the above information]

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SB SAT @ AMSAT $ANS-228.05
AMSAT Awards

AMSAT News Service Bulletin 228.05
>From AMSAT HQ SILVER SPRING, MD.
August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.05

AMSAT Director Contests and Awards, Bruce Paige, KK5DO congrat-
ulates the following Amateur Radio operators who have earned
these awards.

AMSAT Satellite Communications Achievement Award:
Rizkallah Azrak OD5RI #503
Dave Glow AA1VX #504
Evangelos Kafetzopoulos SV1EEK #505

The following have earned the AMSAT Sexagesimal Award.
David Bird KC7USS #150

The following have earned the South Africa Communications
Achievement Award.
Evangelos Kafetzopoulos SV1EEK #US137

The following have earned the W4AMI Achievement Award (for 1000 contacts)
Dimtrios Pallis SW1JGW #54

George Carr WA5KBH #55
Evangelos Kafetzopoulos SV1EEK #56

To see all the awards visit http://www.amsat.org

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-228.06
SimSat-4 Amateur Radio High Altitude Balloon Flight Announcement

AMSAT News Service Bulletin 228.06
>From AMSAT HQ SILVER SPRING, MD.
August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.06

The SimSat-4 high-altitude balloon flight experiment has been scheduled for Saturday morning, September 19, 2009.

SimSat-4 Principal Investigator, Pat Kilroy, N8PK has posted the latest information on the web at: http://simsat.net then click SimSat-4. Pat invites you to check this link on a regular basis for updates and late breaking news about SimSat-4.

Pat says he needs more volunteers to help execute a successful flight. He is looking for:

1. Net Control Station for the (A) HF or (B) VHF net. You are also invited to create your own net on a repeater more local to you and your club.

2. Amateur Radio stations to copy and save telemetry during the mission from the comfort of your own home/shack.

3. Invite a student (young or old) to participate with you. Show 'em how to listen. That's all.

4. Download and install a CW code reader on your PC. Play with it and let us know how well it works.

5. There are many other fun tasksand you can see the list on the SimSat-4 announcement page. http://simsat.net and then click SimSat-4.

[ANS thanks SimSat-4 Principal Investigator, Pat Kilroy, N8PK for the above information]

/EX

SB SAT @ AMSAT $ANS-228.07
Satellite Shorts From All Over

AMSAT News Service Bulletin 228.07
>From AMSAT HQ SILVER SPRING, MD.

August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.07

+ Congratulations to Patrick, WD9EWK on his Worked All States award. Patrick completed WAS completely via the FM LEO satellites.

+ Short Notice! Mark WA8SME plans to activate the rare grid DM19 (smack in the middle of Nevada) on August 17 during the 2130Z AO27 pass (approximate). He will operate using an HT and Arrow antenna.

+ Software enhancement allows you to fly through the 10,000 galaxies of the Hubble Ultra Deep Field image at: http://tinyurl.com/n3fhjg Try the full screen option in the bottom toolbar for the best experience. (UniverseToday.com)

+ Congratulations to Doug, KD8CAO and Jim, W8MRR on their successful Amateur Satellite demonstration via AO-51 on 8/11/09 at the Holland Area Radio Club in Michigan. Jim said, "Everything went right, the weather was perfect, the satellite and our equipment performed flawlessly, and a huge crowd of hams were there for our monthly meeting." Doug and Jim also included a Power Point presentation.

+ AMSAT-UK's FUNcube satellite project is featured on the front cover of the August 12-18 edition of Electronics Weekly magazine. You can read the digital version of Electronics Weekly magazine online in PDF format at: http://cde.cerosmedia.com/1D4a803d8814a11352.cde

+ Roland PY4ZBZ has posted an audio recording from his AO-7 SSB QSO with Andre, ZS2BK covering a of distance of 6890 km. The recording is at: http://www.qsl.net/py4zbz/satelite/ZS2BK_AO7.wav Photos of his 2 element Yagi on VHF and 6 el on UHF are on-line at: http://www.qsl.net/py4zbz/satelite.htm#owa6

+ The next Hudson Valley Satcom Group net is Thursday August 20 at 8PM EDT (UTC-4), on the 146.97 Repeater and Echolink node: N2EYH-L (via WA2BSS)

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-228.08
Invitation to Join Nova East Star Party ARISS Video Link

AMSAT News Service Bulletin 228.08
>From AMSAT HQ SILVER SPRING, MD.
August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.08

On Saturday, August 22, 2009 participants at the Nova East Star Party (Smileys Provincail Park, Brooklyn, Nova Scotia Canada) will have the opportunity to speak with Canadian Astronaut and

Expedition 20/21 Flight Engineer Dr. Robert (Bob) Thirsk, VA3CSA,
on board the International Space Station.

With the help of the Province of Nova Scotia's Emergency Management
Office and Bell Aliant a LIVE satellite uplink will be used to pro-
vide a 1 hour webcast of the event.

Starting at shortly after 12:00 UTC the webcast will include amateur
radio and astronomical topics. The webcast will conclude with the
actual contact which begins with AOS at 12:54:08 UTC.

Please join us for this very special educational outreach event at
http://exclusive.bellaliant.net/spacestation.

[ANS thanks the ARISS Mentor for Nova East Star Party 2009, Wayne
Harasimovitch, VE1WPH for the above information]

/EX

SB SAT @ AMSAT $ANS-228.09
Mars Orbit Getting Busier

AMSAT News Service Bulletin 228.09
>From AMSAT HQ SILVER SPRING, MD.
August 16, 2009
To All RADIO AMATEURS
BID: $ANS-228.09

MarsDaily.com reports that NASA's Mars Reconnaissance Orbiter is
in safe mode, a precautionary standby status, and in communications
with Earth after unexpectedly switching to its backup computer on
Thursday, August 6.

Engineers are working to determine the cause of the spontaneous swap
from the orbiter's "A" side computer and subsystems to the redundant
"B" side.

They have successfully increased the communication rate from the
orbiter, but some engineering data about what was occurring just
before the side swap may never be available. The team expects it
will be at least several days until normal science operations resume.

After the challenging mission to moon, ISRO has begun preparations
for sending an Indian spacecraft to Mars within the next six years.
Mission studies have been completed and collection of scientific pro-
posals has begun. India is examining launch opportunities between 2013
and 2015.

MarsDaily.com also reported this week that China's first satellite
to probe Mars has been transported to Russia for a launch later this
year.

Yinghuo-1, the 110-kilogramme (242-pound) Chinese satellite, is
scheduled to be launched along with Russia's "Phobos Explorer" aboard

a Zenit rocket in October after final testing, the Beijing News said.

After entering Mars' orbit -- 10 to 11 months later -- the orbiter will probe the Martian space environment, with a special focus on what happened to the water that appears to have once been abundant on the planet's surface.

[ANS thanks MarsDaily.com and SpaceDaily.com for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that please keep in mind the camel who journeyed a thousand miles across the desert to reach the oasis palm, and yet he could not get a date.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

105. WSR-227 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-08-16 01:27:14 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001501ca1e10$a886ff90$f994feb0$@net>
Source record: 504
Cross-posted to: rec.radio.amateur.space,rec.radio.info

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This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-227.S1
WSR 227 Part 1 08/15/2009

AMSAT NEWS SERVICE BULLETIN 227.S1
FROM AMSAT HQ SILVER SPRING, MD, August 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-227.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.880 Mhz FM
Downlink: 2401.200 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

[09152009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19/20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07312009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-227.S2
WSR 227 Part 2 08/15/2009

AMSAT NEWS SERVICE BULLETIN 227.S2
FROM AMSAT HQ SILVER SPRING, MD, August 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-227.S2

Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825MHz 1k2 AX.25
[07312009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825 MHz 1k2 AX.25
[07312009]
=====
BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====

CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.880 Mhz FM
Downlink: 2401.200 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM

145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[09152009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22

Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[07312009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-227.S3
WSR 227 Part 3 08/15/2009

AMSAT NEWS SERVICE BULLETIN 227.S3
FROM AMSAT HQ SILVER SPRING, MD, August 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-227.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545

Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK

[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826

Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz

[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909

Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8

Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439

Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-227.S4
WSR 227 Part 4 08/15/2009

AMSAT NEWS SERVICE BULLETIN 227.S4
FROM AMSAT HQ SILVER SPRING, MD, August 15, 2009
TO ALL RADIO AMATEURS
BID: $ANS-227.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667

Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org

NNNN
/EX

_____
Via the ANS mailing list courtesy of AMSAT-NA
http://amsat.org/mailman/listinfo/ans

106. ANS-235 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-08-23 18:48:42 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002e01ca2422$4d7a0210$e86e0630$@net>
Source record: 505
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-235

ANS is a free, weekly, news and information service of AMSAT North America,
The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

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****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore
Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php
*
****
***
****

In this edition:
* SuitSat-2 Gets A New Name
* AMSAT Ballot Deadline Approaching
* Wallops Suborbital Launch With APRS
* ARISS Status - 17 August 2009

SB SAT @ AMSAT $ANS-235.01
SuitSat-2 Gets A New Name

AMSAT News Service Bulletin 235.01
From AMSAT HQ SILVER SPRING, MD.
August 23, 2009
To All RADIO AMATEURS
BID: $ANS-235.01

The SuitSat-2 project now has a new name to go with its new shape,
ARISSat-1

.

Gaston Bertels, ON4WF, the ARISS Chairman announced the new name for the satellite and project this week. The project team is moving ahead using the same hardware that was to fly in the Russian Orlan suit. The team is re-configuring some of the modules to fit into the new structure being designed by Bob Davis, KF4KSS and his team.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-235.02
AMSAT Ballot Deadline Approaching

AMSAT News Service Bulletin 235.02
From AMSAT HQ SILVER SPRING, MD.
August 23, 2009
To All RADIO AMATEURS
BID: $ANS-235.02

The deadline for returning the gold "corrected" ballot to the AMSAT office is September 15th. If you need biographical information on the candidates, it can be found on the AMSAT website.

[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-235.03
Wallops Suborbital Launch With APRS

AMSAT News Service Bulletin 235.03
From AMSAT HQ SILVER SPRING, MD.
August 23, 2009
To All RADIO AMATEURS
BID: $ANS-235.03

There will be a launch to 300+ km of an APRS payload on a sounding rocket out of Wallops Island VA, this fall. Bob Bruninga, WB4APR, says, "I don't want to steal anyone's thunder, but they said I could give this heads up". More details will be posted when available.

It is only 300 milliiwatts and will be on the National APRS frequency 144.39 to make sure everyone can track it. The total mission duration is on the order of 10 minutes from launch to re-entry.

AMSAT stations with beams in the mid-Atlantic states will be
valuable.

APRS stations with Igates with beams will be even better so the
student builders half way across the country can get their
packets live via the APRS-IS (internet)...

OMNI antennas in quiet locations should be able to hear the
packets direct, so nearby Igates with omni's probably need no
enhancement.

[ANS thanks Bob, WB4APR, for the above information]

/EX

SB SAT @ AMSAT $ANS-235.04
ARISS Status - 17 August 2009

AMSAT News Service Bulletin 235.04
From AMSAT HQ SILVER SPRING, MD.
August 23, 2009
To All RADIO AMATEURS
BID: $ANS-235.04

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has
been
approved for Tension Woods College in Mount Gambier, South Australia.
The
contact is scheduled for Monday, August 24 at 07:19 UTC via telebridge
station
W6DUE in Maryland. The contact will be integrated into the
curriculumï¿½s
astronomy and physics units through participation in hands-on
activities.

An Amateur Radio on the International Space Station (ARISS) contact has
been
scheduled for Volkssterrenwacht Urania in Hove, Antwerp, Belgium on
Monday,
August 24 at 10:22 UTC via telebridge station W6SRJ in California,
assuming
STS-128 launches on August 24. (If STS-128 is delayed, the contact will
be
rescheduled for Monday, August 24 at 11:30 UTC
through telebridge station VK4KHZ
in Australia.) Urania is a public observatory that raises public
awareness
of
astronomy, meteorology and astronautics. A range of activities and
services
are
available: lessons for beginners and the experienced, guided tours of

the
observatory, an extended documentation center, various publications,
stargazing
evenings, conferences, Urania Mobile (Flanders' first mobile
observatory)
and
the astroshop. This "Space Talk" will boost activities at the start of
the
new
season.

2. ARISS Contact Between Robert Thirsk and Ottawa Sports Camp

On Tuesday, August 11, an Amateur Radio on the International Space
Station
(ARISS) contact was held between Canadian Space Agency (CSA) Astronaut
Robert
Thirsk, VA3CSA and Ottawa South United Sports Camp held at the Walter
Baker
Sports Centre in Ontario, Canada. Telebridge station W6SRJ in California
facilitated the connection. All 18 questions prepared for the contact
were
answered with enough time left over for one additional question.
Approximately
130 people attended the event. The audio was fed into the EchoLink AMSAT
and
JK1ZRW conference room servers and the IRLP (Internet Radio Linking
Project)
Discovery Reflector 9010.

3. ARISS Contact with Euro Space Center, Night of Stars Event

On Thursday, August 13, approximately 200 people attending the Euro
Space
Center, Night of Stars Event in Transinne,
Belgium gathered for an Amateur Radio
on the International Space Station (ARISS)
contact. Frank DeWinne, ON1DWN on the
ISS participated in the contact, answering 20 questions. Telebridge
station
W6SRJ in California assisted with the contact. The audio was fed into
the
EchoLink AMSAT and JK1ZRW conference room servers and the IRLP (Internet
Radio
Linking Project) Discovery Reflector 9010.

4. ARISS Promoted at Quebec Hamfest

On August 1, Amateur Radio on the International Space Station (ARISS)
Canadian
Delegate Maurice-Andrï¿½ Vigneault set up an ARISS display and satellite
communication demonstration station at the Quebec City Hamfest in nearby

St-Romuald. ARISS Delegate Daniel Lamoureux also participated in the Hamfest.
Pamphlets explaining the purpose of ARISS and AMSAT (Radio Amateur Satellite
Corporation) were handed out. The Canadian Space Agency (CSA) also provided
handouts, stickers and decals. The delegates will next visit the Ottawa Hamfest
in nearby Carp, Ontario, on September 12 to promote the ARISS program.

5. Astronaut Training Status

Christer Fuglesang, KE5CGR/SA0AFS, was given a review of the Amateur Radio
on
the International Space Station (ARISS) radio system in preparation for an
expected contact during the STS-128 mission time frame. Information on his
upcoming mission may be found here:
http://www.esa.int/esaCP/SEM56UE3GXF_index_0.html

On Thursday, August 13, an introduction course
was also provided to Dan Burbank,
KC5ZSX. Burbank is scheduled to fly on a future ISS expedition.

6. Electronics Weekly Interviews ARISS Member

AMSAT-UKï¿½s FUNcube satellite has been featured on the front cover of the
August
12-18 issue of Electronics Weekly. The full FUNcube article titled,
ï¿½Bringing
FUN back to the classroom,ï¿½ by Steve Bush may be
found on page 8 and contains an
interview with Amateur Radio on the International Space Station (ARISS)
member
Graham Shirville, G3VZV. See:
http://cde.cerosmedia.com/1D4a803d8814a11352.cde

7. ARRL QST Covers ARISS News

The American Radio Relay League (ARRL) published two small ARISS (Amateur
Radio
on the International Space Station) related news items in its September 2009
issue of QST. One item pointed readers to the article on the Garriotts, "Two
Generations of Hams in Space" that ran in The Bridge, printed by the Electrical
and Computer Engineering Honor Society. The

second item was a notice to readers
that space shuttle Endeavour carried three astronauts to the ISS who are
hams
and would be doing ARISS educational activities.

The ARRL monthly journal has a circulation of 150,000.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT
Project
Funds, will be eligible to receive additional benefits. Application
forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

107. WSR-234 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-08-23 18:50:12 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002f01ca2422$77baf6b0$6730e410$@net>
Source record: 506
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-234.S1
WSR 234 Part 1 08/22/2009

AMSAT NEWS SERVICE BULLETIN 234.S1
FROM AMSAT HQ SILVER SPRING, MD, August 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-234.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68

=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.

=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.

=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm

=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org

=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

=====
INTERNATIONAL SPACE STATION (ISS) - ARISS

Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19/20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-234.S2
WSR 234 Part 2 08/22/2009

AMSAT NEWS SERVICE BULLETIN 234.S2
FROM AMSAT HQ SILVER SPRING, MD, August 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-234.S2

Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825MHz 1k2 AX.25

=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825 MHz 1k2 AX.25

=====
BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm

=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6

=====
CP-6

Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK

=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?

=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK

=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz

=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101

=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php

=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php

=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php

=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43

=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72

=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25

=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html

=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm

=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56

=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
BBS - Uplink: 1268.700 Mhz FM 9k6
Downlink: 435.150 Mhz FM 9k6
Telemetry - Downlink: 435.150 MHz FM

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear

U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19

=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/

=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php

=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/

=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php

=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php

=====
LO-19 LUSAT
Catalog number: 20442

Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu

=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46

=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60

=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php

=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php

=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php

=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 20 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS

Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-234.S3
WSR 234 Part 3 08/22/2009

AMSAT NEWS SERVICE BULLETIN 234.S3
FROM AMSAT HQ SILVER SPRING, MD, August 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-234.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79

=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no

=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php

=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK

=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps

=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php

=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de

=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.

=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt

=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html

=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html

=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB

U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz

=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK

=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip

=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/

=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm

=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12

=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS

=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html

=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html

=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12

=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12

=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12

=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP

=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz

145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html

=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25

=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz

=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html

=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)

=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM

=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW

=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm

=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html

=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW

=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz

=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW

=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW

=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)

=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz

=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz

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SB SAT @ AMSAT W8ISS ANS-234.S4
WSR 234 Part 4 08/22/2009

AMSAT NEWS SERVICE BULLETIN 234.S4
FROM AMSAT HQ SILVER SPRING, MD, August 22, 2009
TO ALL RADIO AMATEURS
BID: $ANS-234.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html

=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25

=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT

=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT

=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz

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/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

108. WSR-242 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-09-01 00:34:29 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001ca2a9b$ee8547d0$cb8fd770$@net>
Source record: 507
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-242.S1
WSR 242 Part 1 08/30/2009

AMSAT NEWS SERVICE BULLETIN 242.S1
FROM AMSAT HQ SILVER SPRING, MD, August 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-242.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialh
[02122009]
==VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial
[08302009]
==SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
==FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[02122009]
==AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
==AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]

==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19/20/21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN

STS-128 Discovery Crew:
Commandeer: Frederick Sturckow
Pilot: Kevin A. Ford
Mission Specialist: Patrick Forrester
Mission Specialist: Josï¿½ Hernï¿½ndez KE5DAV
Mission Specialist: Christer Fuglesang SA0AFS/KE5CG
Mission Specialist: John D. "Dannyï¿½ Olivas

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[08302009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-242.S2
WSR 242 Part 2 08/30/2009

AMSAT NEWS SERVICE BULLETIN 242.S2
FROM AMSAT HQ SILVER SPRING, MD, August 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-242.S2

Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825MHz 1k2 AX.25
[07312009]
==Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825 MHz 1k2 AX.25
[07312009]
==BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
==AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004

Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
==CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
==HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
==Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
==ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
==SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial1
[03232009]

==KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
==STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial□

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID1&retURL
=/satellites/status.php
[022152009]
==KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial7

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID0&retURL
=/satellites/status.php
[02212009]
==PRISM (Tokyo Univ.)
Catalog Number: 33493

Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial□

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID9&retURL
=/satellites/status.php
[02212009]
==RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID5&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caidC
[02122009]
==CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID□&retURL
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialr
[02122009]
==CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
==GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
==CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
==CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID□&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
==CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialV
[02122009]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear

V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial
[08302009]
==QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
==CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satIDi&retURL
=/satellites/status.php
[02212009]
==NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
==GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID&retURL
=/satellites/status.php
[04272009]
==RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satIDv&retURL
=/satellites/status.php
[02212009]
==LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
==CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialF
[02212009]
==AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial`
[02212009]
==CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialx

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID2&retURL
=/satellites/status.php
[02212009]
==Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialR

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID4&retURL
=/satellites/status.php
[04272009]
==CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial6

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID3&retURL

=/satellites/status.php
[02212009]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19/20/21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN

STS-128 Discovery Crew:
Commandeer: Frederick Sturckow
Pilot: Kevin A. Ford
Mission Specialist: Patrick Forrester
Mission Specialist: Josï¿½ Hernï¿½ndez KE5DAV
Mission Specialist: Christer Fuglesang SA0AFS/KE5CG
Mission Specialist: John D. "Dannyï¿½ Olivas

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[08302009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-242.S3
WSR 242 Part 3 08/30/2009

AMSAT NEWS SERVICE BULLETIN 242.S3
FROM AMSAT HQ SILVER SPRING, MD, August 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-242.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialy
[10022008]
==LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
==PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
==NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
==XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
==UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
==CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
==DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID1&retURL
=satellites/all_oscars.php
[02212009]
==AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
==MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
==NO-45 SAPPHIRE

Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
==SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
==SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
==AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
==OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
==UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
==SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz

145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
==PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
==SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
==TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
==MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]

==PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
==IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
==KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
==KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
==UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
==AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
==FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
==WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
==DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
==AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
==UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
==UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
==FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
==UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
==AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]

==AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
==AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
==AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
==OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
==RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
==RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
==RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
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SB SAT @ AMSAT W8ISS ANS-242.S4
WSR 242 Part 4 08/30/2009

AMSAT NEWS SERVICE BULLETIN 242.S4
FROM AMSAT HQ SILVER SPRING, MD, August 30, 2009
TO ALL RADIO AMATEURS
BID: $ANS-242.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
==NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
==NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
==HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
==SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

109. ANS-242 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-09-01 00:35:31 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000101ca2a9c$15352670$3f9f7350$@net>
Source record: 508
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-242

ANS is a free, weekly, news and information service
of AMSAT North America, The Radio Amateur Satellite
Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share
an active interest in designing, building, launching
and communicating through analog and digital Amateur
Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Guest Banquet Speaker Dr.Martin Collins *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:
* Satellite Notes
* AMSAT Space Symposium Registration
* News From the Tokyo Ham Fair
* ARISS Status - 24 August 2009

SB SAT @ AMSAT $ANS-242.01
Satellite Notes

AMSAT News Service Bulletin 242.01
From AMSAT HQ SILVER SPRING, MD.
August 30, 2009
To All RADIO AMATEURS
BID: $ANS-242.01

Help Needed For AMSAT Publications

AMSAT-NA currently has two positions that need a volunteer to jump
in and assist with our publishing efforts.

The AMSAT Journal needs a person who can provide translation from
German to English. AMSAT-DL has published several significant updates
about P3-E which can be shared with the english-speaking operators.
Conversely, translation from English to German would enable sharing

of articles both ways.

Next, the weekly AMSAT News Service ANS Bulletins has an opening (or 2) for an editor to take on news gathering and reporting work. This is a rotating position shared with 3 existing editors so your ANS duty would occur approximately once every 4 weeks per the schedule.

If you can help please contact AMSAT VP User Services, Gould Smith WA4SXM (wa4sxm@amsat.org) and let him know which position you are interested in helping with.

[ANS thanks Gould, WA4SXM for the above information]

AO-51 Mode Change to V/U and L/U Repeaters This Week

AMSAT VP Operations, Drew KO4MA reported that AO-51 Control Station has turned on the SQRX receiver and the 1268.700 uplink to allow users to access the satellite according to the following schedule:

August 31 - September 5:

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

FM Repeater, L/U
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

Ground controllers reported they lowered the power on the 435.300 transmitter to compensate for the extra power the receiver uses. Currently 435.150 is at 400mw, and 435.300 is at 700mw. Together the transmitters are drawing 1.06 amps continuously.

Please remember to send those your AO-51 operating mode suggestions to the ao51-modes@amsat.org e-mail address. Keep an eye on the AO-51 webpage at http://www.amsat.org/amsat-new/echo/CTNews.php, ANS news bulletins, posts to AMSAT-BB, and AMSAT on Twitter for updates and information.

[ANS thanks Drew, KO4MA for the above information]

Satellite Tracker For Your iPhone

OK folks, we could pretty much guess these applications would arrive sooner or later. Well its sooner now. For who are interested to have a free satellite tracker application in your iPhone here are two for you to test out:

These can be downloaded from the AppStore via these links:

Space Station Lite (ISSLite) FREE
http://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id0552
2724&
mt=8

Satellite Tracker - FREE
http://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id0626
0378&
mt=8

[ANS thanks Fabiano Moser CR7/PY5RX for the above information]

FO-29 Satellite Recovery Progress Report

Mineo Wakita, JE9PEL reported that FO-29's ground control stations have been working on recovering this satellite after an outage reported by users earlier this week. As of August 28 the control station has succeeded in transmitting commands to the satellite and received good response.

At present FO-29 is available only when it is over Japan so that the control station can command the satellite, retrieve telemetry data, and analyze the results. The receiver aboard FO-29 is used for both command and transponder operations. When too many stations attempt to uplink they interfere with ground controllers efforts to command the satellite. FO-29 controllers will advise when the satellite becomes available for general amateur radio use. After this please do not attempt to uplink to FO-29 if you cannot copy its CW beacon.

The fo29cwts.exe telemetry decoding program was updated to Ver 2.4 this week. CW telemetry copy/pasted into the decoder is displayed graphically. Refer to the following pages to download the software:

http://www.ne.jp/asahi/hamradio/je9pel/90828f29.jpg
http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.zip

[ANS thanks Mineo Wakita, JE9PEL for the above information]

[ANS thanks all for the above information]

/EX

SB SAT @ AMSAT $ANS-242.02
AMSAT Space Symposium Registration

AMSAT News Service Bulletin 242.02
From AMSAT HQ SILVER SPRING, MD.
August 30, 2009
To All RADIO AMATEURS
BID: $ANS-242.02

You can now register online for the 2009 AMSAT Space Symposium and Annual Meeting. This year we are celebrating our 40th anniversary so please come and visit with old

friends, listen to interesting presentations and enjoy
our guest speaker, Dr. Martin Collins. Dr Collins who
works at the the Smithsonian Air and Space Museum will
talk on "Making the Space Age: The
First Fifty Years". Online registration will
disappear on October 5th so
do not wait too long!
Don't forget your BOD Ballots-Due by Sept 15th.!
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[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-242.03
News From the Tokyo Ham Fair

AMSAT News Service Bulletin 242.03
From AMSAT HQ SILVER SPRING, MD.
August 30, 2009
To All RADIO AMATEURS
BID: $ANS-242.03

Hello (J)AMSATs,

Today was the last day of Tokyo Ham Fair, which was
another great day like it was yesterday. I was at the
JAMSAT booth where I showed my small transponder design
to the HAM people, which gave a lot off interest from all
kinds of people. Possibilities for future satellite have
been created and people have been made interrested in
doing satellite communication.

I had also the opertunity to meet a lot of people using
the VO-52 satellite, on which is my transponder. It is a
great joy to see the satellite activities here on the
other side of the globe (seen from my home in
The Netherlands). I noticed that a lot of CW is used
here. Some people are doing city junting, which means
they have their car build like a satellite station
(incl. rotor and elevation) and hop between satellite
passes from one city to another, and try to make QSOs
from as many cities as possible. The car stations are
real nice contructions, and of great ham spirit.
Very nice to see...

There was also a list with number of contacts made for
each satellite pass by one ham. The highest number was
on VO-52 with 42 QSO's for one pass (over Japan), 36 in
CW and 6 in SSB. Its really amazing, and it must have
been done with very high time efficiency, and a very
fast CW wrist hihi...

It was a great time at the JAMSAT booth, and we had a
nice after party with lot of JAMSAT members, and with
delicious Japanese food. My thanks for the great
hospitality from the JAMSAT people, and thanks for
the nice talks we had about satellites.

73 de JA/PE1RAH
William Leijenaar in Tokyo (till 28 August)

[ANS thanks William Leijenaar, JA/PE1RAH, for the above information]

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SB SAT @ AMSAT $ANS-242.04
ARISS Status - 24 August 2009

AMSAT News Service Bulletin 242.04
From AMSAT HQ SILVER SPRING, MD.
August 30, 2009
To All RADIO AMATEURS
BID: $ANS-242.04

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact
has been made with Tenison Woods College in Mount Gambier,
South Australia. The contact was scheduled for Monday, August
24 at 07:19 UTC via telebridge station W6DUE in Maryland. The
contact has been integrated into the curriculumï¿½s astronomy
and physics units through participation in hands-on activities.

An Amateur Radio on the International Space Station (ARISS)
contact has been accomplished with Volkssterrenwacht Urania in
Hove, Antwerp, Belgium on Monday, August 24 at 11:30 UTC via t
elebridge station VK4KHZ in Australia. Urania is a public
observatory that raises public awareness of astronomy,
meteorology and astronautics. A range of activities and
services are available: lessons for beginners and the
experienced, guided tours of the observatory, an extended d
ocumentation center, various publications, stargazing
evenings, conferences, Urania Mobile (Flanders' first mobile
observatory) and the astroshop. This "Space Talk" will boost
activities at the start of the new season.

2.Timothy Kopra Participates in ARISS Contact with KIPP:3D Academy

On Thursday, August 20, the Knowledge is Power Program (KIPP:3D)
Academy in Houston, Texas participated in an Amateur Radio on
the International Space Station (ARISS) contact with Timothy
Kopra, KE5UDN via telebridge station W6SRJ in California.
All 18 prepared questions were answered with time for an
additional two. The audio was fed into the EchoLink AMSAT
and JK1ZRW conference room servers.

3. ARISS Contact Held with Peruvian University

On Thursday, August 20, an Amateur Radio on the International Space Station (ARISS) contact was held between Gennady Padalka, RN3DT on the ISS and participants in the international forum to discuss small satellite development and launch projects, held at the Peruvian National University of Lima in Lima, Peru. Participants were delegates from different South American countries and technical university representatives from foreign countries. Among the participants was the Kursk State Technical University delegate, Valery Pikkiev, who developed a space experiment for SuitSat-2 (ARISSat-1).

4. Successful ARISS Contact with Scouts of Maur

The international year of astronomy inspired a few scout guides from Maur near Zï¿½rich, Switzerland, to create a special scout event, the Astrocamp 2009, where participants learn about astronomy and space technology, communication technologies, journalism and public relations. One of the activities scheduled for the event was an Amateur Radio on the International Space Station (ARISS) contact between the Girl and Boy Scouts of Maur ï¿½Pfadimuur,ï¿½ and Frank De Winne, ON1DWN on the ISS. The contact took place on Saturday, August 22. Twelve questions were answered as an audience of approximately 100 listened. Scouts, mass-media representatives, parents and interested parties were present.
Television channel TELETOP, radio stations DRS-3, DRS-1 Regional, Radio Energy, Radio 24, Radio Zï¿½richsee and the newspaper Sonntagsblick covered the event. The audio was fed into the EchoLink AMSAT and JK1ZRW conference room servers.

5.Thirsk Participates in ARISS Contact with Nova East Star Party

On Saturday, August 22, an Amateur Radio on the International Space Station (ARISS) contact took place between the Nova East Star Party, sponsored by the Royal Astronomical Society of Canada, Halifax Center in Nova Scotia, Canada and Robert Thirsk, VA3CSA, on the ISS. Four hundred people witnessed the contact as Thirsk answered the 18 questions posed to him. Bell Aliant was present to record the event. The Nova East Star Party is Atlantic Canadaï¿½s oldest and largest Star Party which draws both professional as well as amateur astronomers from the Atlantic Provinces, Quebec, Eastern Ontario and the New England States. The focus of the event is public outreach and education. Through daytime seminars and workshops and evening observing sessions, the public is introduced to the wonders of the night sky.

6. ARISS International Team Meeting Held

An Amateur Radio on the International Space Station (ARISS) teleconference was held on Wednesday, August 19. SuitSat-2 (now ARISSat-1) was among the topics discussed. The minutes have been posted to the ARISS Web site.

See: http://www.rac.ca/ariss/arisstel2009-08-19.htm

7. Make Magazine Posts SuitSat Article

Make Magazine published an article on Amateur Radio
on the International Space Station (ARISS) project,
SuitSat-2 (now ARISSat-1). To view the story, go to:
http://blog.makezine.com/archive/2009/08/suitsat_hacking_for_outer_space.
htm
l

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT
Project
Funds, will be eligible to receive additional benefits. Application
forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

110. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.space
Date: 2009-09-01 06:00:02 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1251784801@panix.com>
Source record: 509
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

111. ANS-249 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-09-06 04:37:04 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201ca2eab$03705820$0a510860$@net>
Source record: 510
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-249

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:

* AMSAT-NA BoD Ballots Due September 15
* Only One Month Until the AMSAT Space Symposium
* FO-29 Recovery Efforts Continue
* AO-7 DX Reports
* Silent Key: Packet Satellite Pioneer Den Connors, KD2S
* Satellite Shorts From All Over
* ESA Astronaut Answers Your Questions From Space

SB SAT @ AMSAT $ANS-249.01
AMSAT-NA BoD Ballots Due September 15

AMSAT News Service Bulletin 249.01
>From AMSAT HQ SILVER SPRING, MD.
September 6, 2009
To All RADIO AMATEURS
BID: $ANS-249.01

The deadline for returning the gold "corrected" ballot to the AMSAT office is September 15th. If you need biographical information on the candidates, it can be found on the AMSAT website.

[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-249.02
Only One Month Until the AMSAT Space Symposium

AMSAT News Service Bulletin 249.02
>From AMSAT HQ SILVER SPRING, MD.
September 6, 2009
To All RADIO AMATEURS
BID: $ANS-249.02

Co-Chairs, Frank Bauer, KA3HDO, and Janet Bauer remind you that the 2009 AMSAT Symposium is rapidly approaching! And we hope you can join us, especially given that there are some low-cost airfares out there for those of us in the US.

We have an outstanding venue this year at the Four Points Sheraton at the BWI Airport. Your symposium committee recently did a walk through of this facility. The accommodations and meeting rooms are superb. Frank said, "I do a lot of traveling and I must say that the rooms are absolutely beautiful. You will definitely get a substantial bang for your buck (or Euro, etc.) at this symposium. And planned 40th Anniversary celebratory events will be truly memorable".

So we'd love to see you in "Charm City"-Baltimore Maryland..for the symposium presentations, 40th anniversary celebrations, poster sessions, ARISS Operations Team Meeting, and AMSAT BoD meeting.

Full details are available on-line:
http://www.amsat.org/amsat-new/symposium/2009/index.php

You can now register online for the 2009 AMSAT Space Symposium and Annual Meeting: http://www.amsat-na.com/store2/SymposiumReg2009.php Online registration will disappear on October 5th so do not wait too long!

Our guest speaker is Dr. Martin Collins from the the Smithsonian Air and Space Museum. He will talk on "Making the Space Age: The First Fifty Years".

Follow the links from the Symposium page to book your room at the hotel. An 800 number is also available. When booking your room let the operator know that you are with the Radio Amateur Satellite Corporation for the special rates. (They don't seem to know about AMSAT.)

[ANS thanks Frank Bauer, KA3HDO, and Janet Bauer for the above information]

/EX

SB SAT @ AMSAT $ANS-249.03
FO-29 Recovery Efforts Continue

AMSAT News Service Bulletin 249.03
>From AMSAT HQ SILVER SPRING, MD.
September 6, 2009
To All RADIO AMATEURS
BID: $ANS-249.03

Mineo Wakita, JE9PEL reported that recovery efforts continue for the FO-29 satellite. Partial CW telemetry from FO-29 was received by Luciano, PY5LF, "during the orbit 64384 of FO29 I heard and decoded the telemetry for only 3 times then the satellite turned off." At the present time the ground control team continues to analyze telemetry and are continuing attempts to restore the satellite while it is over Japan.

The latest information can be found on Mineo's web page at: http://www.ne.jp/asahi/hamradio/je9pel/fo29rest.htm

[ANS thanks Mineo Wakita, JE9PEL for the above information]

/EX

SB SAT @ AMSAT $ANS-249.04
AO-7 DX Reports

AMSAT News Service Bulletin 249.04
>From AMSAT HQ SILVER SPRING, MD.
September 6, 2009
To All RADIO AMATEURS
BID: $ANS-249.04

Piraja, PS8RF reported more transatlantic DX via AO-7 from Brazil. During the orbit number 59094 of AO-7 (MODE B - 20:14:21 UTC - 21/08/2009) I could hear Andre, ZS2ACP calling CQ and giving a signal report to another station here in Brazil (PY5LF). Unfortunately I could not find the uplink, was prepared, but I missed the time to call it. Despite the weather have been enough I could not hear me. The AO-7 in spite of 35 years continues to bring surprises to the satellite community. See: http://www.youtube.com/watch?v=meMa0zz5v4k

Piraja also noted another AO-7 milestone. Joe, K3SZH has reached 10,000 contacts via AO-7. Congratulations Joe!

[ANS thanks Piraja, PS8RF for the above information]

/EX

SB SAT @ AMSAT $ANS-249.05
Silent Key: Packet Satellite Pioneer Den Connors, KD2S

AMSAT News Service Bulletin 249.05
>From AMSAT HQ SILVER SPRING, MD.
September 6, 2009
To All RADIO AMATEURS
BID: $ANS-249.05

Tom Clark, K3IO noted, "It is with much sadness that I report the passing of Den Connors, KD2S. Den passed on after a year long fight to conquer lymphoma."

Den was TAPR's first president, overseeing the transition from a local Tucson club into the multi-national TAPR. He was a major

sponsor of the adoption of AX.25 as the amateur packet standard.
Under his lead, TAPR introduced the TNC-1 and then later the TNC-2.
Den worked with Tom to define an amateur store-and-forward packet
radio satellite which morphed into the AO16, IO-26, AO-27, and
MO-30 Microsats.

73, Den -- you will be missed by all your friends!

[ANS thanks Tom Clark, K3IO for the above information]

/EX

SB SAT @ AMSAT $ANS-249.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 249.06
>From AMSAT HQ SILVER SPRING, MD.
September 6, 2009
To All RADIO AMATEURS
BID: $ANS-249.06

+ The dates of the 2010 AMSAT-UK Colloquium will be the weekend of
July 30 to August 1, 2010. The location will be the same as in 2009,
the Holiday Inn, Guildford, Surrey, United Kingdom. (G3WGM)

+ Please collect and send telemetry data you receive on 145.825 from
the Pollux and Castor satellites to ande@juno.nrl.navy.mil. There
was a laser ranging experiment this weekend from Maui to illuminate
the retroreflectors on both satellites. If you include your address
you can receive a QSL card. (KD4HBO)

+ Photos of the night time launch of STS-128 can be viewed on-line:
From 200 miles north on Jekyll Island, GA see: http://bit.ly/4uBi3N
The view from Orlando can be seen at http://www.mydrive.ch/en. The
username is plethra2. The guest password is aa4kn_1. They are found
in the STS-128 folder.

+ Listen for Tom, KB9BIT as he activates the far western part of the
Oklahoma Panhandle between September 12 - 19 (grids DM86 and DM87)
To get your QSL card e-mail Tom at kb9bit@arrl.net or tmlask@att.net
with the details of the QSO.

+ Congratulations and a hearty well-done to Clint, K6LCS on his very
successful "How to Work Ham Sats With Your HT" presentation to the
Moreno Valley (CA) Amateur Radio Association. Clint says, "They were,
indeed, properly impressed!" Listen for Clint's upcoming demos on:
September 11 - EchoLink/IRLP via K0GQ
September 17 - Conejo Valley ARC
October 5 - WARA (Fullerton) meeting
October 17 - Victor Valley ARC's JOTA

+ West Coast USA stations worked Hawaii via AO-51 on September 4.
Ron, W6ZQ operated from Kauai in grid BL02. Robert, NH7WN from
Honolulu (BL11) was also on the same pass. Patrick, WD9EWK said

he was able to work W6ZQ at just under 2 degrees elevation and
got NH7WN at just over 3 degrees elevation.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-249.07
ESA Astronaut Answers Your Questions From Space

AMSAT News Service Bulletin 249.07
>From AMSAT HQ SILVER SPRING, MD.
September 6, 2009
To All RADIO AMATEURS
BID: $ANS-249.07

This week Space Daily carried a story dateline September 3, from
Paris, France about a new way to contact the International Space
Station.

How do you wash your clothes in space? How does food stay fresh if
there is no fridge on the ISS? ESA's Frank De Winne is answering
these, and many more of your questions, right now, from space.

Is there something you always wanted to know about being an astro-
naut? Or you are just curious about living and working in space?
Well, now is the time to ask. Instead of searching the Internet,
you can ask an ESA astronaut directly. Frank De Winne, on the
International Space Station, is keen to answer your questions
personally via ESA's YouTube channel.

Questions answered so far have been "Will you exercise a lot on
your bike?", "What medical conditions would stop you becoming an
astronaut?", "Will Europe have its own Space Shuttle in the future?"
and "Do you use washing powder for washing clothes in space?"

Frank is answering questions from space fans all over Europe, and he
will greet you in English, French or Dutch in your personal video
response.

All you have to do is record your question using a webcam, video
camera or mobile phone, and post it on ESA"s YouTube channel. Each
week, Frank posts his responses to your questions on the site,
directly from space.

Frank is part way through his six-month mission on the International
Space Station. Later in his mission, he will also become the first
European commander of the ISS.

Have a go, it could be your question answered next!

Record and upload your questions to ESA"s YouTube channel as a
'Video Response' to De Winne's video message which can viewed at this
link: http://www.youtube.com/watch?v=okpNcG3vu_E

(ed. note: Frank's amateur radio callsign is ON1DWN.)

[ANS thanks SpaceDaily.com for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that please keep in mind when wondering how important feed line loss is in your antenna installation that ancient wisdom reminds us about the man who digs his well at a distance from the tent soon laments when his wife's mustache catches fire.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

112. WSR-249 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-09-06 13:30:25 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601ca2ef6$284eb600$78ec2200$@net>
Source record: 511
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-249.S1
WSR 249 Part 1 09/06/2009

AMSAT NEWS SERVICE BULLETIN 249.S1
FROM AMSAT HQ SILVER SPRING, MD, September 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-249.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialh
[02122009]
==VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial
[08302009]
==SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
==FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
==AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
==AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]

==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19/20/21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN

STS-128 Discovery Crew:
Commandeer: Frederick Sturckow
Pilot: Kevin A. Ford
Mission Specialist: Patrick Forrester
Mission Specialist: Josï¿½ Hernï¿½ndez KE5DAV
Mission Specialist: Christer Fuglesang SA0AFS/KE5CG
Mission Specialist: John D. "Dannyï¿½ Olivas

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[08302009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-249.S2
WSR 249 Part 2 09/06/2009

AMSAT NEWS SERVICE BULLETIN 249.S2
FROM AMSAT HQ SILVER SPRING, MD, September 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-249.S2

Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825MHz 1k2 AX.25
[07312009]
==Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825 MHz 1k2 AX.25
[07312009]
==BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
==AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004

Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
==CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
==HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
==Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
==ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
==SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial1
[03232009]

==KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
==STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial□

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID1&retURL
=/satellites/status.php
[022152009]
==KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial7

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID0&retURL
=/satellites/status.php
[02212009]
==PRISM (Tokyo Univ.)
Catalog Number: 33493

Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial□

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID9&retURL
=/satellites/status.php
[02212009]
==RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID5&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caidC
[02122009]
==CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID□&retURL
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialr
[02122009]
==CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
==GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
==CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
==CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID□&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
==CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialV
[02122009]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM
BBS - Uplink: OFF
Downlink: OFF
Telemetry - Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear

V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial
[08302009]
==QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
==CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satIDi&retURL
=/satellites/status.php
[02212009]
==NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
==GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID&retURL
=/satellites/status.php
[04272009]
==RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satIDv&retURL
=/satellites/status.php
[02212009]
==LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
==CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialF
[02212009]
==AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial`
[02212009]
==CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialx

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID2&retURL
=/satellites/status.php
[02212009]
==Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialR

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID4&retURL
=/satellites/status.php
[04272009]
==CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial6

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID3&retURL

=/satellites/status.php
[02212009]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 19/20/21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Timothy Kopra KE5UDN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN

STS-128 Discovery Crew:
Commandeer: Frederick Sturckow
Pilot: Kevin A. Ford
Mission Specialist: Patrick Forrester
Mission Specialist: Josï¿½ Hernï¿½ndez KE5DAV
Mission Specialist: Christer Fuglesang SA0AFS/KE5CG
Mission Specialist: John D. "Dannyï¿½ Olivas

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[08302009]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-249.S3
WSR 249 Part 3 09/06/2009

AMSAT NEWS SERVICE BULLETIN 249.S3
FROM AMSAT HQ SILVER SPRING, MD, September 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-249.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialy
[10022008]
==LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
==PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
==NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
==XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
==UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
==CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
==DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID1&retURL
=satellites/all_oscars.php
[02212009]
==AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
==MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
==NO-45 SAPPHIRE

Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
==SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
==SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
==AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
==OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
==UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
==SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz

145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
==PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
==SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
==TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
==MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]

==PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
==IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
==KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
==KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
==UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
==AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
==FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
==WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
==DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
==AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
==UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
==UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
==FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
==UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
==AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]

==AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
==AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
==AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
==OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
==RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
==RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
==RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-249.S4
WSR 249 Part 4 09/06/2009

AMSAT NEWS SERVICE BULLETIN 249.S4
FROM AMSAT HQ SILVER SPRING, MD, September 06, 2009
TO ALL RADIO AMATEURS
BID: $ANS-249.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
==NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
==NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
==HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
==SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

113. Radio Meteor Obs. Bull. August 2009 Perseids

Newsgroup: rec.radio.amateur.space
Date: 2009-09-07 17:05:30 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <u7faa5tngoggsjcnmlda7v73hmn7v795si@4ax.com>
Source record: 512
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 193 of August 2009 (84 K) is available now as

http://www.rmob.org/rmobtext/rmob0908.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

114. WSR-255 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-09-14 13:40:05 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601ca3540$d584a6e0$808df4a0$@net>
Source record: 513
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-255.S1
WSR 255 Part 1 09/12/2009

AMSAT NEWS SERVICE BULLETIN 255.S1
FROM AMSAT HQ SILVER SPRING, MD, September 12, 2009
TO ALL RADIO AMATEURS
BID: $WSR-255.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM Repeater TWO
Uplink: OFF
Downlink: OFF
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[09122009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS

Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW

435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[09122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-255.S2
WSR 255 Part 2 09/12/2009

AMSAT NEWS SERVICE BULLETIN 255.S2
FROM AMSAT HQ SILVER SPRING, MD, September 12, 2009
TO ALL RADIO AMATEURS
BID: $WSR-245.S2

Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825MHz 1k2 AX.25
[07312009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825 MHz 1k2 AX.25
[07312009]
=====
BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]

=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM REPEATER TWO
Uplink: OFF

Downlink: OFF
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[09122009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====

CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[09122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-249.S3
WSR 255 Part 3 09/12/2009

AMSAT NEWS SERVICE BULLETIN 255.S3
FROM AMSAT HQ SILVER SPRING, MD, September 12, 2009
TO ALL RADIO AMATEURS
BID: $WSR-255.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====

XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====

OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]

=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437

Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-249.S4
WSR 249 Part 4 09/12/2009

AMSAT NEWS SERVICE BULLETIN 255.S4
FROM AMSAT HQ SILVER SPRING, MD, September 12, 2009

TO ALL RADIO AMATEURS
BID: $WSR-255.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]

=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

Via the ANS mailing list courtesy of AMSAT-NA
http://amsat.org/mailman/listinfo/ans

115. ANS-256 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-09-14 14:09:19 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000701ca3540$f201be20$d6053a60$@net>
Source record: 514
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-256

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:
* Sumbandilasat Launch on Track
* September 2009 AO-51 Schedule
* AMSAT Symposium Breaking News: Low Cost Airfare
* Special Event Coinciding with AMSAT Symposium
* Dutch Authorities Propose Rebanding D-STAR Into 70cm Satellite Band
* ARRL/TAPR DCC (Digital Communications Conference) Forum Schedule Announced
* Satellite Shorts From All Over
* ARISS Status - 7 September 2009

SB SAT @ AMSAT $ANS-256.01
Sumbandilasat Launch on Track

AMSAT News Service Bulletin 256.01
From AMSAT HQ SILVER SPRING, MD.
September 13, 2009
To All RADIO AMATEURS
BID: $ANS-256.01

The latest information on the SA AMSAT web page says that the launch of SumbandilaSat is on track for 15 September 2009. Monitor the web pages at http://www.amsatsa.org.za/index.htm for the latest information.

In an interview with SA AMSAT, Johan Erasmus, SunSpace systems engineer speaking from Baikonur, said that the satellite traveled well and that

all system performed to specification during the testing phase. Tests were carried out in the clean room at the Baikonur launch facility in Kazakhstan. "All payloads operated well and we were able to test the amateur payload from a little distance away. The parrot, voice repeater and the voice beacon responded well"

The voice beacon message was recorded by Anton Coetzee, at the time a learner at the Technical High School Kimberley. His message was selected from entries in a competition to find the best message with which to launch SumbandilaSat. It reads: "This is ZSOSUM in space. I am the voice of the South African youth. We are knocking on the door of opportunity, marking our place in the orbit of space research and communication. Hear us!" You can preview the audio message on-line: http://www.amsatsa.org.za/Anton%20Cotezzee%20Sumbandila%20Sat%20Message.mp3

During the week the butane propulsion system tank was filled and the batteries were charged. On Wednesday 2 September SumbandilaSat was integrated with the launch platform. The main payload, a Russian weather satellite, has also arrived at Baikonur and is currently being integrated into the launch structure. Next week the launch structure will be transported to the launch site and integrated with the Soyuz rocket. "With all now in place we can expect a launch on 15 September", Johan Erasmus said.

A few members of the SunSpace team will remain behind to give the batteries a final charge so that when SumbandilaSat is separated from the final stage of the rocket the batteries are in a healthy state and to remove the last of the protective covers. The focus is now shifting to the ground station at the University of Stellenbosch where the satellite will be commanded approximately 30 minutes after separation and three hours into the flight.

An intensive period of payload qualification will follow during which each system will be tested. This is expected to take up to 3 months after which the command will shift to the CSIR's Satellite Application Centre at Hartebeeshoek, north of Pretoria.

Once the main payload, a Multi-spectral imager which has a 6.25m Ground Sampling Distance (GSD) with 6 spectral bands and is supported by an on-board storage of 24 Giga byte of memory and a main downlink of 72 Mb/s is fully put into service, will a schedule be set up according to which the various experimental payloads on board will be operated.

FREQUENCIES Mode VU FM voice Transponder and Parrot

Uplink 145.880 MHz
Downlink 435.350 MHz

Voice Beacon 435.300 MHz

AMATEUR OPERATION OF ZS0SUM PAYLOAD

+ The details of the CTCSS tones will be made available after the payload has been commissioned.

+ On receipt of a "X" CTCSS tone the control unit will command the satellite in the transponder mode.

+ On receipt of a "Y" CTCSS tone the control unit will command the satellite in the parrot mode.

+ If for a period no tones are received, the system will activate a voice beacon.

[ANS thanks SA AMSAT for the above information and sends our congratulations and best wishes for a successful mission]

/EX

SB SAT @ AMSAT $ANS-256.02
September 2009 AO-51 Schedule

AMSAT News Service Bulletin 256.02
From AMSAT HQ SILVER SPRING, MD.
September 13, 2009
To All RADIO AMATEURS
BID: $ANS-256.02

All 435.150 repeater downlinks are subject to interruption for telemetry, generally one AM pass/day over the eastern US

August 31 - September 7 (~1200Z)

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

FM Repeater, L/U
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

September 7 - September 13

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 9k6 FM

September 14 - September 20

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

QRP Only FM Repeater, V/U
(<10 watts and hand held or omni antennas only)

Uplink: 145.880 MHz FM
Downlink: 435.150 MHz FM

September 21 - September 27

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 9k6 FM

September 28 - October 4

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

QRP Only FM Repeater, V/U and College Radio Night (October 1-2)
(<10 watts and hand held or omni antennas only)
Uplink: 145.880 MHz FM
Downlink: 435.150 MHz FM

October 5 - October 11 AMSAT Symposium week

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 9k6 FM

[ANS thanks Mark,N8MH, for the above information]

/EX

SB SAT @ AMSAT $ANS-256.03
AMSAT Symposium Breaking News: Low Cost Airfare

AMSAT News Service Bulletin 256.03
From AMSAT HQ SILVER SPRING, MD.
September 13, 2009
To All RADIO AMATEURS
BID: $ANS-256.03

The 2009 AMSAT Symposium is rapidly approaching! And we hope you can join us..especially given that there are some low-cost airfares out there for those of us in the US.

We have an outstanding venue this year at the Four Points Sheraton at the BWI Airport. Your symposium committee recently did a walkthrough of this facility. The accommodations and meeting rooms are superb. I do a lot of traveling and I must say that the rooms are absolutely beautiful.

You will definitely get a substantial bang for your buck (or Euro, etc) at this symposium. And planned 40th Anniversary celebratory events will be truly memorable.

And to make things even better, Southwest Airlines has a phenomenal Nationwide (US) fall sale. $59-109 one-way airfares are available to BWI until Sept 3. And remember, with Southwest, there are no baggage fees.

Also, Airtran has a sale to and from BWI until September 17. $39-119 with a 10 day advance purchase. Sign up now to get the best fares before they are taken by others.

Airtran does charge for checked luggage.

We will be posting the Symposium agenda this week. For planning purposes, the BoD meeting starts Thursday morning and runs until noon Friday. The symposium starts at 1 pm Friday and runs until noon Sunday. The AMSAT annual meeting with be Saturday afternoon. And there will be an ARISS ops meeting (all are invited) on Sunday. The 40th anniversary celebration is Friday night and the Banquet is Saturday night.

So we'd love to see you in "Charm City"-Baltimore Maryland..for the symposium presentations, 40th anniversary celebrations, poster sessions, and BoD meeting.

And don't forget to submit a symposium paper to Dan Schultz, N8FGV, ASAP!!

Frank Bauer, KA3HDO, and Janet Bauer
2009 Symposium Co-Chairs

[ANS thanks Frank and Janet for the above information]

/EX

SB SAT @ AMSAT $ANS-256.04
Special Event Coinciding with AMSAT Symposium

AMSAT News Service Bulletin 256.04
From AMSAT HQ SILVER SPRING, MD.
September 13, 2009
To All RADIO AMATEURS
BID: $ANS-256.04

Those of you into Edgar Allan Poe.there is a special treat if you come to this year's symposium. The famous poet is celebrating his 200th birthday this year. He lived in Baltimore for several years and died and was buried in the city. And there is a Poe Museum at the Baltimore house he lived in before his death.

The year-long commemoration of Poe will culminate with a recreation of his funeral that occurs around the Symposium dates. Poe died on October 7, 1849. There will be a recreation of a wake for Poe from noon to 11

pm at the Poe House. This will be followed up with a mock-funeral for Poe on Sunday October 11 (12:30 and 4:30). John Astin (Gomez Addams from the Addams family fame) will officiate the funeral services.

If you want more information on this, go to the following web sites:

www.nevermore2009.com

www.poebicentennial.com

www.annabelleetavern.com This "all Poe" tavern was named after one of Poe's last poems.a virtual shrine to Edgar Allan Poe with his poetry covering the walls.

www.westminsterhall.org Where he is buried.and where a mystery man dresses in black leaves a bottle of cognac and three red roses on Poe's birthday.

If you didn't know it before, now you know why the Baltimore Football team is called the Ravens...

73, Frank Bauer, KA3HDO
2009 AMSAT Symposium Co-Chair

[ANS thanks Frank, KA3HDO, for the above information]

/EX

SB SAT @ AMSAT $ANS-256.05
Dutch Authorities Propose Rebanding D-STAR Into 70cm Satellite Band

AMSAT News Service Bulletin 256.05
From AMSAT HQ SILVER SPRING, MD.
September 13, 2009
To All RADIO AMATEURS
BID: $ANS-256.05

Information received from the Netherlands this week indicated a growing threat to frequencies allocated and used by the Amateur Satellite Service.

Worldwide, including the Netherlands, amateur use of frequencies in many portions of the 70cm band are allocated as secondary users. The threat arises from proposals to move the output frequency band of terrestrial D-STAR repeaters from the 439-440 MHz range down to 437-438 MHz. Dutch regulators have halted amateur D-STAR repeater licensing in that country because they plan to reallocate 439.500 MHz and upward to the Differential GPS (DGPS) service.

Despite protest from Dutch amateur radio operators, amateur clubs in the surrounding countries, and regulators in nearby countries it seems as if the Dutch authorities are still planning on this frequency re-allocation to favor DGPS operation in violation of ITU allocations.

If completed this reallocation of the terrestrial D-STAR repeater outputs would place them right in the downlink band of the Amateur Satellite Service. This would have immediate operational impact on European amateur satellite stations. Longer term it may open the door for future infringement on satellite operations in other countries.

[ANS thanks Geert Jan, PE1HZG for the above information]

/EX

SB SAT @ AMSAT $ANS-256.06
ARRL/TAPR DCC (Digital Communications Conference) Forum Schedule Announced

AMSAT News Service Bulletin 256.06
From AMSAT HQ SILVER SPRING, MD.
September 13, 2009
To All RADIO AMATEURS
BID: $ANS-256.06

TAPR is the premiere national digital organization covering all digital voice & data technologies and digital techniques such as SDR. More information about TAPR can be found at: www.tapr.org

TAPR is active throughout the year. At the Dayton Hamvention TAPR sponsors a digital forum and a joint banquet with AMSAT. TAPR publishes a quarterly journal, the PSR and develops digital techniques such as SDR. TAPR holds in conjunction with the ARRL an annual national Digital Communication Conference. You can follow TAPR's activities, events & updates regularly on Twitter at: www.twitter.org/taprdigital

The ARRL/TAPR DCC (Digital Communications Conference) will be held on September 25 - 27, 2009 again in the northwest suburbs of Chicago at the Elk Grove Village Holiday Inn near O'Hare airport with a free hotel shuttle bus.

The DCC has something for everyone from those new to digital modes to those experienced with digital communications. The DCC has 2 full days of Technical forums on Friday & Saturday. On Saturday there is an additional concurrent track of Introductory forums. On Sunday morning there is a 1/2 day technical session which is a deep dive into one or more digital topics, such as SDR.

The DCC is well known for introducing new technologies & concepts. This year presentations include:

* Two Ham DTV, Digital Television presentations by Art, WA8RMC & Ken, W6HHC.
* "Use of Digital Communications at the Marine Corps Marathon in Washington D.C." by Tom, N4ZPT.
* "Universal Ham Radio Text Messaging" by Bob Bruninga, WB4APR, creator of APRS.

After the Friday night social we plan to have another D-STAR get
together.

The Saturday night banquet speaker will be Bill Brown, WB8ELK. Bill is a
pioneer in flying BalloonSats, balloons with payloads including amateur
radio digital communication technologies.

You can learn more about the DCC & register on-line at: www.tapr.org/dcc
Registration is preferred prior to September 17th for planning purposes,
but walk-in registrations will be accepted.

If you can't attend the DCC the Proceedings can be purchased at the TAPR
web site at: www.tapr.org/pub_dcc.html

Starting last year, 2008 and continuing this year DCC presentations are
being recorded by Amateur Radio Video News. DVDs of the presentations
are available at: http://www.arvideonews.com

If you have any questions you can reach the TAPR Office at:
taproffice@tapr.org

Look forward to seeing many of you at the DCC.

73, Mark, WB9QZB
DCC Local Co-Host
Chicago, IL

The 2009 DCC forum & speaker schedule is attached & is available online
at the TAPR web site at:
http://www.tapr.org/pdf/DCC_2009_Schedule_Preliminary2009-09-08.pdf

[ANS thanks Mark, WB9QZB, for the above information]

/EX

SB SAT @ AMSAT $ANS-256.07
Satellite Shorts From All Over

AMSAT News Service Bulletin 256.07
From AMSAT HQ SILVER SPRING, MD.
September 13, 2009
To All RADIO AMATEURS
BID: $ANS-256.07

+ FO-29 Control Team operator Yutaka Murata, JA1COU says that data
analysis and recovery efforts continued this week. The control team
confirms their suspicion that FO-29's outage is caused by the long
eclipse periods currently encountered. FO-29 is only commanded on
when it is over Japan although with luck it may remain on depending
on illumination of its solar panels and be heard elsewhere. If you
capture any telemetry from FO-29 over your location please forward
your data via e-mail to lab (at) jarl.or.jp and include your QTH,
date and time.

+ Allen, KK4AK plans to active on the FM satellites from the mountains
of North Carolina (Grid EM96) this coming week.

+ Operating from the Hawaiian Island of Kauai W6ZQ made contact with stations in Hawaii, Alaska, and the US mainland via AO-51.

+ Luc, VE2DWE has made available a recording of his experimentation using D-STAR through the AO-27 satellite. He reports using an uplink frequency of 436.797 MHz and monitored downlink audio on 145.850 MHz. The entire recording can be heard at Luc's website: http://www.qsl.net/ve2dwe/

+ http://spacesat.blogspot.com/2009/08/uma-noite-memoravel-no-ao-7.html is the link to a video of AO-7 DX operations posted by Piraja, PS8RF.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-256.08
ARISS Status - 7 September 2009

AMSAT News Service Bulletin 256.08
From AMSAT HQ SILVER SPRING, MD.
September 13, 2009
To All RADIO AMATEURS
BID: $ANS-256.08

1. ARISS Contact with Craigmore High School

On Wednesday, September 2, an Amateur Radio on the International Space Station (ARISS) contact was held between Craigmore High School in Blakeview, South Australia and Expedition 20 Astronaut Frank De Winne, ON1DWN, on the ISS. An audience of 40 people gathered for the event and one newspaper provided media coverage.

2. ESA Astronaut De Winne Speaks with Vrije Basisschool, Belgium

On Thursday, September 3, Frank De Winne, ON1DWN, participated in an Amateur Radio on the International Space Station (ARISS) contact with Vrije Basisschool in De Haan, Belgium via telebridge station VK4HZ in Australia. De Winne answered twenty-two questions posed to him by the students. Approximately 240 students, teachers and parents as well as radio, television and newspaper reporters attended the event. The audio was fed into the EchoLink AMSAT and JK1ZRW servers. This was a European Space Agency (ESA) event. Students who participated in the ARISS contact were chosen through an ESA competition.

3. ARISS Contact with ESA/ESOC Successful

An Amateur Radio on the International Space Station (ARISS) contact was held at the European Space Agency (ESA)/European Space Operation Centre (ESOC) in Darmstadt, Germany on Friday, September 4 via telebridge station LU8YY in Argentina. The contact was held during an open day event, ï¿½The Long Night of the Stars.ï¿½ Students from a local school, ï¿½Schuldorf Bergstrasse,ï¿½ in Seeheim participated in the contact. Astronauts Robert Thirsk, Frank de Winne and Christer Fuglesang took turns answering eleven questions posed to them. An audience of 200

gathered at the stage for the contact and several audio and video links were provided for all the visitor rooms of the Open Day event at ESOC, so that an additional 750 visitors could connect to the contact. The event was covered by the television station Hessischer Rundfunk HR3, the radio station HR-Info Radio Hessischer Rundfunk Frankfurt and two newspapers, Frankfurter Rundschau and Darmstaedter Echo. There was also a live coverage via the Internet (Kosmologs) and five freelance journalists were present. The audio was also fed into the EchoLink AMSAT and JK1ZRW servers.

4. Stockholm Students Question Fuglesang via ARISS Contact

On Sunday, September 6, students from Sï¿½traskolan in Skï¿½rholmen, Stockholm, Sweden participated in an Amateur Radio on the International Space Station (ARISS) contact via telebridge station LU8YY in Argentina. STS-128 Mission Specialist Christer Fuglesang, KE5CGR, answered 14 questions as an audience of 400 gathered for the contact. Media covered the event and the audio was fed into the EchoLink AMSAT and JK1ZRW servers.

5. Astronaut Training Status

Astronaut Tracy Caldwell is scheduled for an Amateur Radio on the International Space Station (ARISS) licensing session on Wednesday, September 9. Caldwell is scheduled to fly with Expedition 23 in April 2010.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS
ku4os at amsat dot org

_____
Via the ANS mailing list courtesy of AMSAT-NA
http://amsat.org/mailman/listinfo/ans

116. WSR=261 AMSAT Weekly Satellie Report

Newsgroup: rec.radio.amateur.space
Date: 2009-09-18 03:12:25 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001701ca380d$cee588c0$6cb09a40$@net>
Source record: 515
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-261.S1
WSR 261 Part 1 09/18/2009

AMSAT NEWS SERVICE BULLETIN 261.S1
FROM AMSAT HQ SILVER SPRING, MD, September 18, 2009
TO ALL RADIO AMATEURS
BID: $WSR-261.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW
```

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM Repeater TWO (QRP ONLY)
Uplink: 145.880 MHz FM
Downlink: 435.150 MHz FM
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[09182009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS

Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW

435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[09122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-261.S2
WSR 261 Part 2 09/18/2009

AMSAT NEWS SERVICE BULLETIN 261.S2
FROM AMSAT HQ SILVER SPRING, MD, September 18, 2009
TO ALL RADIO AMATEURS
BID: $WSR-261.S2

Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825MHz 1k2 AX.25
[07312009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Downlink: 145.825 MHz 1k2 AX.25
[07312009]
=====
BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]

=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM Repeater TWO (QRP ONLY)
Uplink: 145.880 MHz FM

Downlink: 435.150 MHz FM
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[09182009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====

CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[09122009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-261.S3
WSR 261 Part 3 09/18/2009

AMSAT NEWS SERVICE BULLETIN 261.S3
FROM AMSAT HQ SILVER SPRING, MD, September 18, 2009
TO ALL RADIO AMATEURS
BID: $WSR-261.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====

XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====

OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]

=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437

Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
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SB SAT @ AMSAT W8ISS $WSR-261.S4
WSR 261 Part 4 09/18/2009

AMSAT NEWS SERVICE BULLETIN 261.S4
FROM AMSAT HQ SILVER SPRING, MD, September 18, 2009

TO ALL RADIO AMATEURS
BID: $WSR-261.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]

=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

117. ANS-270 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-09-27 01:20:08 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001101ca3f10$a0f52f10$e2df8d30$@net>
Source record: 516
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-270

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:

* Two Weeks and Counting to 2009 AMSAT-NA Space Symposium
* ARISSat-1 Structure Drawings Available on AMSAT Web
* SumbandilaSat Reaches Orbit - Awaiting Commissioning
* Four New University Cubesats in Orbit and Heard on 70cm
* College Night on Satellites Coming October 1-2
* Satellite Operators Sought for Shortwave Broadcast Interview
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-270.01
Two Weeks and Counting to 2009 AMSAT-NA Space Symposium

AMSAT News Service Bulletin 270.01
>From AMSAT HQ SILVER SPRING, MD.
September 27, 2009
To All RADIO AMATEURS
BID: $ANS-270.01

Co-Chairs, Frank Bauer, KA3HDO, and Janet Bauer remind you that the 2009 AMSAT Symposium is rapidly approaching! And we hope you can join us, especially given that there are some low-cost airfares out there for those of us in the US.

We have an outstanding venue this year at the Four Points Sheraton at the BWI Airport. Your symposium committee recently did a walk through of this facility. The accommodations and meeting rooms are superb. Frank said, "I do a lot of traveling and I must say that

the rooms are absolutely beautiful. You will definitely get a substantial bang for your buck (or Euro, etc.) at this symposium. And planned 40th Anniversary celebratory events will be truly memorable".

+ Free internet in the rooms and in the conference facility
+ Free parking
+ All AMSAT member get free admittance to the 40th Anniversary Party Friday Evening---food, cake, meet 'n greet, eyeball QSOs.
+ Beautiful flat screen televisions in each room
+ Great Banquet Speaker--- Martin Collins, Smithsonian Institution National Air and Space Museum Curator, Space History Museum, "Making the Space Age, the First 50 years"
+ High-Caliber paper presentations on recent Satellite Developments and satellite operations
+ Poster Session with Satellite, University, and ARISS activities.
+ An AMSAT 40th anniversary retrospective is included
+ IARU Satellite Forum
+ ARISS Operations Team Meeting---ARISS team members and new volunteers are welcome to attend
+ Great prizes from major ham radio manufacturers

Full details are available on-line:
http://www.amsat.org/amsat-new/symposium/2009/index.php
The Symposium Schedule and list of presentations has been posted.

You can now register online for the 2009 AMSAT Space Symposium and Annual Meeting: http://www.amsat-na.com/store2/SymposiumReg2009.php
Online registration will disappear on October 5th so do not wait too long!

Our guest speaker is Dr. Martin Collins from the the Smithsonian Air and Space Museum. He will talk on "Making the Space Age: The First Fifty Years".

Follow the links from the Symposium page to book your room at the hotel. An 800 number is also available. When booking your room let the operator know that you are with the Radio Amateur Satellite Corporation for the special rates. (They don't seem to know about AMSAT.) Please be advised that the cut-off date for the AMSAT block at the Four Points by Sheraton BWI Airport is September 28th. Getting our meeting rooms for free is dependant on the number of room nights we secure. So, PLEASE make your room reservations as soon as possible.

Contact Mark Steiner, K3MS (k3ms@amsat.org) if you are interested in preparing a poster display. Mark needs the following information by Tuesday, Oct. 6 regarding what you will need for your display:

+ Square footage of floor space
+ Number of tables (to be provided by hotel)
+ If a power drop is needed
+ Any other special needs

[ANS thanks Frank Bauer, KA3HDO, and Janet Bauer for the above information]

/EX

SB SAT @ AMSAT $ANS-270.02
ARISSat-1 Structure Drawings Available on AMSAT Web

AMSAT News Service Bulletin 270.02
>From AMSAT HQ SILVER SPRING, MD.
September 27, 2009
To All RADIO AMATEURS
BID: $ANS-270.02

Drawings of the ARISSat-1 structure are available on the AMSAT web site. Bob Davis, KF4KSS and team have done an outstanding job designing this structure around the existing modules for SuitSat-2.

There will be a full scale model of ARISSat-1 at the Symposium as well as working hardware. Bob expects to start cutting metal for the structure next week.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-270.03
SumbandilaSat Reaches Orbit - Awaiting Commissioning

AMSAT News Service Bulletin 270.03
>From AMSAT HQ SILVER SPRING, MD.
September 27, 2009
To All RADIO AMATEURS
BID: $ANS-270.03

South Africa's SumbandilaSat satellite is now in orbit after a successful liftoff aboard a Soyuz rocket from the Baikonur Cosmodrome in Kazakhstan on September 16. The main payload is a multi-spectral imager, but the satellite also carries an Amateur Radio component consisting of a 2 meter/70 cm FM repeater.

After SumbandilaSat is fully commissioned, the repeater will be activated with an uplink at 145.880 MHz and a downlink at 435.350 MHz; there will also be a voice beacon at 435.300 MHz. The transponder mode will be controlled by a CTCSS tone on the uplink frequency. The CTCSS tone frequencies have yet to be announced.

SumbandilaSat was sponsored by the Department of Science and Technology and was built at SunSpace in cooperation with the Stellenbosch University.

SumbandilaSat has responded by returning its first telemetry. Testing now involves a period of payload qualification to verify operation of each subsystem. This may require 3 months before the

satellite continues with the remainder of its mission and opens
for general use.

Pieter, ZS1PK/M0PAK provided additional feedback, "Please note that
the Amateur payload will probably not be switched on straight after
launch. Commissioning is most likely to be performed from Stellenbosch
South Africa only. Telemetry will only be heard while in contact with
the groundstation and NOT on the amateur frequencies. There are a
number of hams involved in the project so rest assured the amateur
payload will be supported as soon as practical and safe."

[ANS thanks SA-AMSAT, ARRL, and Pieter ZS1PK/M0PAK for the above
information]

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SB SAT @ AMSAT $ANS-270.04
Four New University Cubesats in Orbit and Heard on 70cm

AMSAT News Service Bulletin 270.04
>From AMSAT HQ SILVER SPRING, MD.
September 27, 2009
To All RADIO AMATEURS
BID: $ANS-270.04

This week India successfully launched seven satellites on its PSLV-C14
misson. The primary payload was OceanSat-2 but also included six other
satellites. Four of the satellites are CubeSats in the ISILaunch01, a
cluster launch of the following with downlinks in the 70cm amateur radio
band: BEESAT, ITUpSAT1, SwissCube, and UWE-2

NAME CALL BEACON DOWNLINK
--------- ------- ------------------- ------------------------------
BEESAT DP0BEE 436.000 MHz 0.1W CW 436.000 MHz 0.5W 4800/9600 GMSK

UWE-2 437.385 MHz 0.5W 1200 AFSK
9600 FSK

ITUpSAT1 437.325 MHz 0.1W CW 437.325 MHz 1.0W 19200 GFSK

SwissCube HB9EG 437.505 MHz 0.1W CW 437.505 MHz 1.0W 1200 FSK

BeeSat is a pico satellite project of the Technical University of
Berlin. The main objective of BeeSat is the on orbit verification
of newly developed micro reaction wheels for pico satellite appli-
cations. Their web page is at:
http://www.raumfahrttechnik.tu-berlin.de/menue/forschung/projekte/beesat/v-m
enue2/news/

The UWE-2 team encourages all radio amateurs to send us the received
signals to uwe-2@informatik.uni-wuerzburg.de. Their web page is at:
http://www7.informatik.uni-wuerzburg.de/en/research/space_exploration/projek
te/cubesat/uwe-2/

ITUpSAT1 is the first student-made satellite of Turkey. Their web page is at: http://usl.itu.edu.tr/

SwissCube is the first satellite entirely built in Switzerland by students from different universities under the supervision of the Space Center EPFL. More than 180 students participated in the adventure from EPFL, from the university of Neuchatel, from the HES-SO (Sion, Yverdon, Fribourg, St-Immer, Le Locle), and from the FHNW (Brugg-Windisch). The main objective is educational and also includes a small telescope which will allow to obtain images of the nightglow, a luminescence phenomena occurring at 100 km of height above the Earth surface. Their web page is at: http://swisscube.epfl.ch/

A replay of the PSLV-C14 launch video can be viewed at:
http://www.youtube.com/watch?v=h69XGgHXMS0&feature=player_embedded#t=16
http://archangelo.net/misc/sat/new/sep09/pslvc14/view.htm

Signal reports have been received from amateur radio operators around the world. Recordings of the beacon signals can be heard at:
http://mstl.atl.calpoly.edu/~bklofas/PSLV/

2-Line Keplerian elements user for the satellites can use the following for a starting point:

ITUPSAT1
1 35934U 09051D 09266.99498802 .00000364 00000-0 10000-3 0 34
2 35934 098.3432 001.6766 0010433 256.9573 103.1084 14.52588677 111
SWISSCUBE
1 35932U 09051B 09266.92637809 .00000360 00000-0 10000-3 0 33
2 35932 098.3362 001.6263 0006692 285.2589 074.8063 14.52095115 95
BEESAT
1 35933U 09051C 09267.20165191 .00000365 00000-0 10000-3 0 42
2 35933 098.3316 001.8957 0004681 307.1077 052.9887 14.52667744 138
UWE-2
1 35935U 09051E 09267.47761234 .00001929 00000-0 48744-3 0 46
2 35935 098.3417 002.1786 0006949 283.1563 076.8911 14.52112524 176

[ANS thanks the CubeSat teams for the above information]

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SB SAT @ AMSAT $ANS-270.05
College Night on Satellites Coming October 1-2

AMSAT News Service Bulletin 270.05
>From AMSAT HQ SILVER SPRING, MD.
September 27, 2009
To All RADIO AMATEURS
BID: $ANS-270.05

It's time for another College Satellite night! Expect to hear many Oscar capable NA college club stations on the air Thursday evening Oct. 1st-2nd (NA local times) from 22:00 UTC to 0500 UTC for this special event.

College clubs are getting priority on the QRP AO-51 repeater that night (uplink: 145.880 MHz FM. downlink: 435.150 MHz FM). Please work each college station but afford them the ability to take calls and make as many QSOs as possible.

Club stations will also be on other birds so make as many contacts if you can, on each bird. We have encouraged college stations to QSL all the stations they work during the event as we (either through AMSAT or a college group) are planning on creating an award for working college club stations on satellite.

Make sure to e-mail or call as many hams that you know associated with college ham radio clubs so that they will know about this special event and get on the air - usage and NA-wide involvement is important. While we are focusing on North American activity let me know of interest and participation from other parts of the globe, e-mail Dr. Jay Garlitz, AA4FL off-list at jgarlitz@ufl.edu.

[ANS thanks Gator ARC Faculty Advisor at UF, Dr. Jay Garlitz, AA4FL for the above information]

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SB SAT @ AMSAT $ANS-270.06
Satellite Operators Sought for Shortwave Broadcast Interview

AMSAT News Service Bulletin 270.06
>From AMSAT HQ SILVER SPRING, MD.
September 27, 2009
To All RADIO AMATEURS
BID: $ANS-270.06

Ted Randall, host of the shortwave broadcast QSO Radio Show, invites satellite operators who are interested in coming on show and talking about your personal experiences in satellite communication. Ted requests, "I would like someone who can take an entry level approach in that we have a lot of new and young hams listening. If you could have someone join in me in an informal telephone interview please contact me."

The QSO Radio Show is heard on WBCQ 7415 KHz Tuesdays 5-7 PM EDT or 2100-2300 UT; and on WRMI Radio Miami International 9955 KHz Sundays from 1-3 AM EDT or 0500-0700 UTC.

Ted's web page is at: http://www.tedrandall.com and you can e-mail Ted Randall at tedrandall@kaij.us

[ANS thanks Ted Randall for the above information]

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SB SAT @ AMSAT $ANS-270.07
Satellite Shorts From All Over

AMSAT News Service Bulletin 270.07
>From AMSAT HQ SILVER SPRING, MD.
September 27, 2009
To All RADIO AMATEURS
BID: $ANS-270.07

+ Hams like science. Follow these links for fun and interesting scientific articles and videos of space:

Images from the newly refurbished Hubble Space Telescope:
http://www.nasa.gov/mission_pages/hubble/multimedia/ero/index.html

A simulated flyover of Mars using images from the Mars Reconnaissance Orbiter and Spirit Rover:

http://www.universetoday.com/2009/09/23/columbia-hills-flyover-2-0-awesome-meridiani-panoramas/

A video discussing a mission to the oceans of Jupiter's moon Europa:

http://www.dailygalaxy.com/my_weblog/2009/09/nasa-worlds-space-powers-targets-jupiters-europa-.html

Video of the Shuttle piggyback ride back to Florida:

http://www.universetoday.com/2009/09/21/spectacular-videos-of-shuttle-piggyback-flight/

Video of NASA Wallops Island launch:
http://sites.wff.nasa.gov/webcast/

Watch the ARES-1X rocket built in 6 minutes (time lapse)

http://www.universetoday.com/2009/09/23/build-the-ares-i-x-in-less-than-six-minutes/

Cassini views of Saturn, its rings, and moons during equinox:

http://www.nasa.gov/externalflash/cassini_equinox/cassini_equinox_slideshow.html

+ Congratulations to Omar, XE1AO, for achieving Satellite VUCC #182 and to George, WA5KHB, for confirming 225 Grids for his VUCC!

+ Henk, PA3GUO has created a video showing the ISS passing over the Netherlands along with sounds and decoded signals of the digital APRS signals at: http://www.vimeo.com/6657880

+ A helpful page for configuring your TM-D700 rig for operating with with spacecraft can be found at: http://www.aj3u.com/tm-d700-tips/

+ Congratulations to Mark, N8MH on his successful AO-51 demonstration via the QRP repeater to the JARS club. He worked WA4SCA, KB1RVT, KB0RZD, N3TL, AA5UK, KB1PVH, and KD8CAO

+ Remember to tune in on Thursday evenings, October 1, 15, 29 at 8pm eastern time will be the sessions of the Hudson Valley Satellite net. You can check in via radio if you are in range of the Mt. Beacon ARC repeater on 146.970 (PL 100.0) or via echolink on the N2EYH-L node.

+ Jan, PE0SAT has copied FO-29 over Europe. He has posted audio and data at:
Here is a recording of the CW telemetry and the data below.
http://www.ham.vgnet.nl/downloads/FO-29-CW-19-09-2009_2344CEST.mp3
http://www.ham.vgnet.nl/images/FO-29-CW-19-09-2009-2355CEST.jpg

+ Listen for Paul, 2E1EUB to be active on the satellites from Scotland as 2M1EUB/P starting October 10 for approximately 14 days. Paul will try for as many satellites as possible including AO-7.

+ Adrian, AA5UK, will be operating again from Ibiza, Spain (IOTA EU-004, Balearic Islands) Grid: JM09tb as: EA6/AA5UK from Oct. 14 - 29th. Satellite activity is planned for the FM and SSB satellites. Adrian will be posting regular satellite schedules via the AMSAT BB. Sked requests are welcome and encouraged; please email him via his email address located at QRZ.com. QSL via home call: Direct, bureau, LOTW or eQSL.

+ Andrew, VK4TEC operates a satellite status display showing latest data received from ISS, PCSAT, AO-51, with manual entries of addi-tional satellites. See: http://vk4tec.no-ip.org/sat_status/

+ Congratulations to Astronaut Tracy Caldwell for passing her amateur radio license exam. She has been issued the callsign, KF5DBF. Caldwell is scheduled to fly with Expedition 23 in April 2010.

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that please be on the look out for plumbers who may have a multi-fauceted personality.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

118. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.space
Date: 2009-10-01 06:00:02 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1254376801@panix.com>
Source record: 517
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

119. WSR-277 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-10-05 12:30:37 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601ca45b7$9c334d60$d499e820$@net>
Source record: 518
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-277.S1
WSR 277 Part 1 10/04/2009

AMSAT NEWS SERVICE BULLETIN 277.S1
FROM AMSAT HQ SILVER SPRING, MD, October 04, 2009
TO ALL RADIO AMATEURS
BID: $WSR-277.S1

SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning

Callsign: ZS0SUM

Uplink: 145.880MHz FM
Downlink: 435.350MHz FM
[10042009]
==DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialh
[02122009]
==VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920Mhz FM
Downlink: 435.300Mhz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol

1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial
[10042009]
==SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
==FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
==AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
==AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev
Flight participant: Guy Laliberti¿½

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)

Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[10042009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-277.S2
WSR 277 Part 2 10/04/2009

AMSAT NEWS SERVICE BULLETIN 277.S2
FROM AMSAT HQ SILVER SPRING, MD, October 04, 2009
TO ALL RADIO AMATEURS
BID: $WSR-277.S2

SwissCube
Catalog Number: 35932?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[10042009]
==UWE-2
Catalog Number: 35935?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[10042009]
==ITUpsAT1
Catalog Number: 35934?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[10042009]
==BEESAT
Catalog Number: 35933?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[10042009]
==Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
==Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
==BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
==AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
==CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
==HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
==Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
==ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
==SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial1
[03232009]
==KAGAYAKI (Solan Co.)
Catalog Number: 33495?

Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
==STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial□

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID1&retURL
=/satellites/status.php
[022152009]
==KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial7

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID0&retURL
=/satellites/status.php
[02212009]
==PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial□

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID9&retURL
=/satellites/status.php
[02212009]
==RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID5&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caidC
[02122009]
==CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID□&retURL
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialr
[02122009]

==CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
==GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
==CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
==CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID□&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
==CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialV
[02122009]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol

1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial
[10042009]
==QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
==CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satIDi&retURL
=/satellites/status.php
[02212009]
==NO-44 PCSAT
Catalog number: 26931

Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
==GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID&retURL
=/satellites/status.php
[04272009]
==RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satIDv&retURL

=/satellites/status.php
[02212009]
==LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
==CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialF
[02212009]
==AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial`
[02212009]
==CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialx

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID2&retURL
=/satellites/status.php
[02212009]
==Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialR

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID4&retURL
=/satellites/status.php
[04272009]
==CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial6

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID3&retURL
=/satellites/status.php
[02212009]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams
Flight Engineer: Maxim Suraev
Flight participant: Guy Laliberti¿½

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[10042009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-277.S3
WSR 277 Part 3 10/04/2009

AMSAT NEWS SERVICE BULLETIN 277.S3
FROM AMSAT HQ SILVER SPRING, MD, October 04, 2009
TO ALL RADIO AMATEURS
BID: $WSR-277.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialy
[10022008]
==LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
==PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
==NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
==XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
==UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
==CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
==DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID1&retURL
=satellites/all_oscars.php
[02212009]
==AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
==MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
==NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
==SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
==SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
==AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
==OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
==UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
==SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
==PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
==SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
==TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
==MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
==PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
==IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
==KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
==KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12

[01222007]
==UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
==AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
==FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
==WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
==DO-17 Dove

Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
==AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
==UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
==UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]

==FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
==UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
==AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
==AO-8 AMSAT-OSCAR 8
Catalog Number: 10703

Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
==AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
==AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
==OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
==RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
==RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
==RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-277.S4
WSR 277 Part 4 10/04/2009

AMSAT NEWS SERVICE BULLETIN 277.S4
FROM AMSAT HQ SILVER SPRING, MD, October 04, 2009
TO ALL RADIO AMATEURS
BID: $WSR-277.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
==NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
==NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
==HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
==SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

120. ANS-277 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-10-05 12:31:49 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000701ca45b7$c87e90f0$597bb2d0$@net>
Source record: 519
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-277

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

****
* 2009 AMSAT Space Symposium and Annual General Meeting October 9-11 *
* Four Points Sheraton Hotel at the Baltimore Washington Airport *
* Details - http://www.amsat.org/amsat-new/symposium/2009/index.php *
****

In this edition:
* AMSAT Symposium is quickly approaching
* California Satellite Demo/Presentation Schedule
* AO-51 configuration to support Scouting JOTA
* European Space Weather Week 16-20 November
* FM sats from Antartica for VK and ZL
* Satellite Shorts From All Over
* ARISS Status - 28 September 2009

SB SAT @ AMSAT $ANS-277.01
AMSAT Symposium is quickly approaching

AMSAT News Service Bulletin 277.01
From AMSAT HQ SILVER SPRING, MD.
October 4, 2009
To All RADIO AMATEURS
BID: $ANS-277.01

This is a reminder that the AMSAT Symposium is quickly approaching.
It takes place next weekend (9-11 OCT) at the BWI Sheraton and you're invited!

This Symposium marks the 40th Anniversary of AMSAT and we'll be
celebrating this significant milestone along with looking forward to

the next 40 years. AMSAT members who are registered for the Symposium are invited to a 'birthday party' for AMSAT Friday evening (including a birthday cake). In addition, Symposium attendees will also receive a 40th Anniversary History of AMSAT written/edited by Bill Tynan, W3XO in their registration packets. Many of us don't know the 'story of AMSAT', and thanks to the work of Bill Tynan, Dick Daniels, Keith Baker and others, we've focused this year on telling AMSAT's story through their articles in the AMSAT Journal. Bill's new book provides significantly more detail as well as brings the reader right up to the current year. It makes for fun reading and gives recognition to the significant achievements over the past 40 years!

This year's "AMSAT Proceedings" has a wide assortment of papers and this year's presentations will be both interesting and informative. Dan Schultz, N8FGV is finalizing the "Proceedings" as this is written and attendees will be in position to hear the presentations, discuss the papers with the authors, and gain some insight into the future direction of AMSAT's satellite program.

The Saturday evening Banquet will feature Martin Collins, a curator at the Smithsonian Air & Space Museum. The title of his talk is "Making the Space Age: The First Fifty Years".

A reminder that that the AMSAT BOD meeting takes place Thursday, 8 OCT and Friday morning, 9 OCT. This is an open meeting, though the BOD does go into closed session briefly on Friday morning. In addition the AMSAT Annual Meeting takes place Saturday afternoon 1530-1700 EDT. We expect to have the Annual Meeting 'online' via Echolink. I anticipate that both the Symposium and the Annual Meeting will be an opportunity to highlight some of the significant accomplishments that have taken place over the last 12 months plus give some perspective on the future direction of AMSAT.

Please consider joining us to celebrate a significant milestone for AMSAT and build the foundation for the next 40 years! You may register online at the AMSAT Store:
http://www.amsat-na.com/store2/SymposiumReg2009.php

73,
Barry A. Baines, WD4ASW
President-AMSAT

[ANS thanks Barry, WD4ASW, for the above information]

/EX

SB SAT @ AMSAT $ANS-277.02
California Satellite Demo/Presentation Schedule

AMSAT News Service Bulletin 277.02
From AMSAT HQ SILVER SPRING, MD.
October 4, 2009
To All RADIO AMATEURS

BID: $ANS-277.02

Clint Bradford, K6LCS, will be making
presentations and demonstrations on amateur
satellites at the following meetings around California:

October 2 - Long Beach ARC*
October 5 - WARA (Fullerton) meeting*
October 8 - EchoLink via “SCARS” Node 96140 5:30PM PDT
October 15 - West Coast ARC (Huntington Beach)*
October 17 - Victor Valley ARC’s JOTA*
November 5 - Crest REACT (Corona)*
November 8 - QWCA Chapter 7 (Norwalk)

The (*) asterisks indicate tentative workable passes for either before
or during the presentations!

[ANS thanks Clint, K6LCS, for the above information]

/EX

SB SAT @ AMSAT $ANS-277.03
AO-51 configuration to support Scouting JOTA

AMSAT News Service Bulletin 277.03
From AMSAT HQ SILVER SPRING, MD.
October 4, 2009
To All RADIO AMATEURS
BID: $ANS-277.03

AMSAT-NA is supporting the 52nd Jamboree on the Air (JOTA) Scouting
event by
dedicating AO-51 operation to the event.

For October 17th and 18th, the AO-51 QRP repeater will be allocated for
JOTA
use. All users are requested to give way to JOTA stations or QSOs with
JOTA
stations.

The frequencies used for this weekend will be 145.880 FM uplink, and
435.150 FM
downlink, no PL tone required. The mode change
should occur at ~00:00 UTC on the
17th (Friday evening in the US) and run for approximately 48 hours.

AMSAT wishes the Scouts good luck operating via the AO-51 satellite for
the
event.

Reports of your JOTA operations should be sent to the AMSAT-BB or
directly to
ko4ma@amsat.org.

Photo files up to 5 Mb total are also welcome for possible inclusion in an
upcoming AMSAT Journal article.

73, Drew KO4MA
AMSAT-NA VP Operations

[ANS thanks Ed, N8BBQ, for the above information]

/EX

SB SAT @ AMSAT $ANS-277.04
European Space Weather Week 16-20 November

AMSAT News Service Bulletin 277.04
From AMSAT HQ SILVER SPRING, MD.
October 4, 2009
To All RADIO AMATEURS
BID: $ANS-277.04

The sixth European Space Weather Week will take place in Brugge, Belgium,
from Monday 16th November to Friday 20th November 2009.

The ESWW meetings aim to bring together diverse communities working on all
elements of space weather with a strong focus on user involvement. This
year’s meeting will discuss recent advances in both scientific and
applications based domains and how these advances relate to user needs.

This year the space weather tutorial and one of the plenary sessions will
focus on issues relating to space weather effects on communications. With
this in mind, the programme committee has made a special arrangement for
radio hams who would like to attend the meeting.

Radio amateurs with a license to operate are also welcome to the conference
and will get a discount. Radio Amateurs are requested to send a copy of
their license to esa.conference.bureau@esa.int within one week after
registration. Registration as a Radio Amateur includes access to scientific
sessions on Tuesday and Wednesday and tutorial only. The reduced fee is 50
€. Attendance to the reception and conference dinner is not included. The
deadline for online registration for hams is October 19.

For more info see: http://sidc.oma.be/esww6

[ANS Neil, PA9N, for the above information]

/EX

SB SAT @ AMSAT $ANS-277.05
FM sats from Antarctica for VK and ZL

AMSAT News Service Bulletin 277.05
From AMSAT HQ SILVER SPRING, MD.
October 4, 2009
To All RADIO AMATEURS
BID: $ANS-277.05

Bill Erhardt, K7MT, will be deploying back to
McMurdo Station Antarctica Nov 15,
2009 - Feb 20, 2010. Bill reports that he will be active from KC4USV
Sundays
0000 GMT on SSB. He has also received requests from Europe to come in
early
around 1800 GMT on Saturdays so they can work
Antarctica. Equipment will include
a rigblaster for PSK-31 on 14.070 and CW on
14.043 if time permits. Bill is also
taking an Arrow II antenna/Kenwood TH-7 to work the FM satellites to VK
and ZL
land. Finally, if Bill can get it operational, APRS VHF to HF with a Kam
Plus.
VK6CO will help
with HF 30 meters with their HF APRS parameters.
You just might see Bill driving
out on the Ross Ice Sea as K7MT-7 in Ivan the Terra Bus. Pictures and
information will be available on Bill's home web page at:

http://www.mt.net/~k7mt

QSL is via K1IED Larry who has done a terrific job with the QSL cards
from
Excel spread sheets sent to him weekly from McMurdo.

ANS thanks Andrew, VK4TEC, for the above information]

/EX

SB SAT @ AMSAT $ANS-277.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 277.06
From AMSAT HQ SILVER SPRING, MD.
October 4, 2009
To All RADIO AMATEURS
BID: $ANS-277.06

+ The European Southern Observatory (ESO) has made available a free
astronomy site that allows you to zoom in on galactic images right
from your personal computer. Check out the GigaGalaxy Zoom site:
http://www.gigagalaxyzoom.org/W.html - the zoomable images are
tagged in the red boxed areas of the main image.

+ Lance Collister, W7GJ released a new version of GJTRACKER (v2.0.3)
at http://bigskyspaces.com/w7gj/GJTRACKER.zip If you have already
installed GJTRACKER on your computer, all you need is to replace
the application file http://www.bigskyspaces.com/w7gj/GJTRACKER.exe

+ NASA TV http://www.nasa.gov/multimedia/nasatv/index.html will carry
the video of the LCROSS mission as it flies through the plume of
lunar debris when the upper stage of a Centaur rocket will purpose-
fully crash into the crater Cabeus near the south pole of the moon.
Coverage begins at 1030 UTC on October 9. Mission information is
available at: http://lcross.arc.nasa.gov/observation/amateur.htm

+ Video replay of the Soyuz launch from the Baikonur Cosmodrome:
http://www.universetoday.com/2009/09/30/soyuz-launch-video/

+ The October 1 ARISS School Contact with Ciencia Viva Museum in
Lisbon, Portugal was a success. A video is at :
http://www.cvtv.pt/imagens/index.asp?id_tag&id_video@8

+ Here's a correction in regards to last week's report about George
attaining 225 grids on his VUCC. George's correct callsign is
WA5KBH.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-277.07
ARISS Statuts - 28 September 2009

AMSAT News Service Bulletin 277.07
From AMSAT HQ SILVER SPRING, MD.
October 4, 2009
To All RADIO AMATEURS
BID: $ANS-277.07

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has
been
scheduled for Sint-Michielscollege Brasschaat vzw (SMCB) in Brasschaat,
Belgium
on Wednesday, October 7 at 10:20 UTC. Visits to space and science
museums are
among the science activities planned for the children. Guest speakers
will
include a representative from Verhaert Space
Systems and Dirk Frimout, Belgium’s
first astronaut.

An Amateur Radio on the International Space Station (ARISS) contact has
been
scheduled with the National Planetarium in Kuala Lumpur, Wilayah
Persekutuan,
Malaysia on Thursday, October 8 at 09:34 UTC. The contact will occur as

part of
the National Space Challenge, a program that was
created in an effort to instill
the talents and desire towards the understanding
of space in primary school aged
children. Sixteen schools will participate.

An Amateur Radio on the International Space Station (ARISS) contact has
been
scheduled for Belmont Elementary School in Langley, British Columbia,
Canada on
Friday, October 9 at 20:20 UTC. Students will complete projects with a
“Mission
Control” theme and the Langley Amateur Radio Association
(L.A.R.A.) will work
with the school to organize this event.

2. ARISS Contact Between De Winne and Vrij Technisch Instituut
Sint-Lucas

An Amateur Radio on the International Space Station (ARISS) contact took
place
on Tuesday, September 22. Students from Vrij Technisch Instituut
Sint-Lucas in
Oudenaarde, Oost – Vlaanderen, Belgium posed 20 questions to
Frank De Winne,
ON1DWN. An audience of 300 students and teachers were present as well as
television, radio and newspaper reporters. The antennas used for the
contact as
well as a UPS device were constructed by the students.

3. Barratt and HMS Beagle Project Connect via ARISS

On Tuesday, September 22, the HMS Beagle Project in Parati, Brazil
participated
in an Amateur Radio on the International Space Station (ARISS) contact
via
ground station K6DUE in Maryland. Approximately sixty students were
present and
watched as classmates asked ten questions of Mike Barratt, KD5MIJ. The
project
(which aims to rebuild the ship that carried Darwin around the world)
and NASA
have signed an International Space Act Agreement, with Barratt as the
initiator
and main connection on the NASA side of the project. The project will
unite ISS
astronaut photography with ocean surface water
and other biological and physical
samples taken by the crew of the new Beagle.

4. ARISS Contact with Cedarview Middle School

Students attending Cedarview Middle School in Ottawa, Ontario, Canada experienced an Amateur Radio on the International Space Station (ARISS) contact
on Thursday, September 24. Astronaut Robert
Thirsk, VA3CSA answered 20 questions
put to him by the students. The school principal commented on the contact, “I
have never seen this kind of quiet on students at a school wide event before.”
CTV Ottawa and other local media provided news coverage.

5. Garfield Elementary, WHEELS and ARISS Team up to Talk about Space

Garfield Elementary School students in Boise, Idaho participated in an Amateur
Radio on the International Space Station (ARISS) contact on Thursday, September
24 via telebridge station W6SRJ in California. Students visited the NASA Exploration Experience traveling exhibit on display at the Idaho Historical
Museum to learn about space exploration and its benefits. Students were able to
ask 6 questions of Astronaut Mike Barratt, KD5MIJ during the 9 minute pass. The
event was well attended by youth, teachers and parents. Students were also
observing the contact at the W6SRJ ground station
- two were students from Santa
Rosa Junior College and another student was visiting from a local K-12 school.
Media coverage included three television stations
and the audio was fed into the
EchoLink AMSAT and JK1ZRW servers.

6. Thirsk Speaks with Japanese Students via ARISS Contact

On Saturday, September 27, students from Houya Elementary School in Nishitokyo,
Japan participated in an Amateur Radio on the International Space Station
(ARISS) contact. Astronaut Robert Thirsk, VA3CSA
answered 15 questions posed by
the students. An audience of approximately 250
was present for the contact. News
coverage was provided by two magazines and an FM radio station.

7. ISS SSTV Active

Gennady Padalka, RN3DT activated the MAI-75 experiment onboard the ISS on
Thursday and Friday, September 24 and 25 from approximately 1000-1600 UTC. Slow
Scan Television (SSTV) images of Earth were downlinked to ground

stations,
including one at the Moscow Aviation Institute (MAI).

8. Astronaut Training Status

Astronaut Tracy Caldwell, KF5DBF was given an overview session on the Amateur
Radio on the International Space Station (ARISS) program this past week. Caldwell is scheduled to fly with Expedition 23 in April 2010.

9. AMSAT Symposium, ARISS Ops Meeting

The Radio Amateur Satellite Corporation (AMSAT) Symposium will be held on
Friday, October 9 through Sunday, October 11 at the Four Points Sheraton Hotel
at the Baltimore Washington Airport in Maryland. Several ARISS (Amateur Radio
on the International Space Station) and ARISSat-1 presentations will be given
and a demo of ARISSat-1 is planned. To view a list of these presentations, go
to: http://www.amsat.org/amsat-new/symposium/2009/Presentations.php

The ARISS Operations team will hold a meeting after the symposium on Sunday,
October 11.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

121. Radio Meteor Obs. Bull. September 2009

Newsgroup: rec.radio.amateur.space
Date: 2009-10-09 20:00:59 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <6j5vc5tmvtu6li5tt01aoj0aa8n0qfoca5@4ax.com>
Source record: 520
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 194 of September 2009 (91 K) is available now as

http://www.rmob.org/rmobtext/rmob0909.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

122. ANS-284 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-10-12 00:10:18 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601ca4ad0$5a8cf280$0fa6d780$@net>
Source record: 521
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-284

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Election of new Officers at the Symposium
* SpaceX Announces Conference
* US Senate Bill Introduced
* AO-51 configuration to support Scouting JOTA
* ARISS Status - October 4, 2009

SB SAT @ AMSAT $ANS-284.01
AMSAT Election of Officers

AMSAT News Service Bulletin 284.01
From AMSAT HQ SILVER SPRING, MD.
October 11 2009
To All RADIO AMATEURS
BID: $ANS-284.01

At the Baltimore Symposium the initial actions of the newly elected BOD is to elect new officers. The seats were filled as follows:

President Barry Baines, WD4ASW
VP of Engineering Tony Monteiro, AA2TX
VP of Operations Drew Glassbrenner, KO4MA
VP of User Services Gould Smith, WA4SXM
Secretary Alan Biddle, WA4SCA
Treasurer Gunther Meisse, W8GSM
Manager Martha

Congratulations to the newly elected officers.

Also, a fine time was had by all that attended the Baltimore AMSAT Symposium. Many excellent presentations were given during the event. At

the annual meeting, the newly elected officers were introduced and new priorities were introduced. AMSAT will offer a DVD of the presentations.
The Banquet had a great guest speaker, Mr. Collins from the Air and Space museum.
Plan to attend next years meeting.

(ANS thanks Martha for the above information]

/EX
SB Sat @ $ans-284.02
SpaceX announces Conference

AMSAT News Service Bulletin 284.02
From AMSAT HQ SILVER SPRING, MD.
October 11, 2009
To All RADIO AMATEURS
BID: $ANS-284.02

Space Exploration Technologies (SpaceX) has announced a second user conference
for its commercial product DragonLabï¿½, a free-flying, reusable spacecraft
capable of hosting pressurized and unpressurized payloads to and from orbit.
The event will focus on the needs of European users and take place on October
29th, 2009, in Haarlem, Netherlands.

DragonLab provides a platform for in-space experimentation, including recovery
of pressurized and some unpressurized payloads, as well as deployment of

small
spacecraft. As a complete system, DragonLab provides a highly capable spacecraft platform that includes propulsion, power, thermal control, environmental control, avionics, communications, thermal protection, flight
software, guidance, navigation and control, entry, descent and landing, and
recovery.

The user conference is an opportunity for potential customers to explore DragonLab's capabilities, as well as present customer-specific interests

and
requirements. The agenda includes an overview of the Dragon spacecraft, concept of operations, payload accommodations and cost parameters.

DragonLab is an alternate configuration of SpaceX's Dragon spacecraft which,

along with the Falcon 9 launch vehicle, has been contracted by NASA to provide
cargo resupply services to the International Space Station as early as 2010.

To express interest in attending the user conference, visit DragonLabUserConference.com.

Space is limited and all participants must receive confirmation from SpaceX in
order to attend this workshop. For more information or questions regarding the
user conference, please email DragonLab@spacex.com.

[ANS thanks Lee for the above information]

/EX

SB Sat @ amsat $ans284.03
US Senate Bill Introduced

AMSAT News Service Bulletin 284.03
From AMSAT HQ SILVER SPRING, MD.
October 11, 2009
To All RADIO AMATEURS
BID: $ANS-284.03

RADIO LAW: SENATE BILL INTRODUCED TO STUDY HAM RADIO EMCOMM

A companion bill to the Amateur Radio Emergency Communications Enhancement
Act of 2009 was introduced in the U.S. Senate on Tuesday, October 6 by Connecticut Democrat Joe Lieberman and Maine Republican Susan Collins.

Titled Senate Bill 1755, it carries the same name as the House measure introduced this past April by Representative Sheila Jackson-Lee. The bill,
if passed, would direct the Department of Homeland Security to undertake

a
study on emergency communications with an emphasis on the role that ham radio operators play.

S 1755 points out that "There is a strong Federal interest in the effective
performance of Amateur Radio Service stations, and that performance must

be
given support at all levels of government; and protection against unreasonable regulation and impediments to the provision of the valuable communications provided by such stations.

Introduction of S 1755 is the result of many months of groundwork laid by
the American Radio Relay League and appears to be directly based on the basis and purpose of the service. This as outlined in Section 97.1 of the
FCC rules. (ARRL)

[ANS thanks ARRL for the above information]

/EX

SB SAT @ AMSAT $ANS-284.04
AO-51 Configured for JOTA

AMSAT News Service Bulletin 284.04
From AMSAT HQ SILVER SPRING, MD.
October 11, 2009
To All RADIO AMATEURS
BID: $ANS-284.04

AO-51 configuration to support Scouting JOTA

AMSAT-NA is supporting the 52nd Jamboree on the Air (JOTA) Scouting event by dedicating AO-51 operation to the event.

For October 17th and 18th, the AO-51 QRP repeater will be allocated for JOTA use. All users are requested to give way to JOTA stations or QSOs with JOTA stations.

The frequencies used for this weekend will be 145.880 FM uplink, and 435.150 FM downlink, no PL tone required. The mode change should occur at ~00:00 UTC on the 17th (Friday evening in the US) and run for approximately 48 hours.

AMSAT wishes the Scouts good luck operating via the AO-51 satellite for the event.

Reports of your JOTA operations should be sent to the AMSAT-BB or directly to ko4ma@amsat.org.

Photo files up to 5 Mb total are also welcome for possible inclusion in an upcoming AMSAT Journal article.

73, Drew KO4MA
AMSAT-NA VP Operations

[ANS thanks the AO-51 Operations Team for the above information]

/EX

SB SAT @ AMSAT $ANS-284.05
ARISS Report for Oct 4,2009

AMSAT News Service Bulletin 284.05
From AMSAT HQ SILVER SPRING, MD.
October 4, 2009

To All RADIO AMATEURS
BID: $ANS-284.045

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled for Sint-Michielscollege Brasschaat vzw (SMCB) in Brasschaat, Belgium on Wednesday, October 7 at 10:20 UTC. Visits to space and science museums are among the science activities planned for the children. Guest speakers will include a representative from Verhaert

Space Systems and Dirk Frimout, Belgiumï¿½s first astronaut.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with the National Planetarium in Kuala Lumpur, Wilayah Persekutuan, Malaysia on Thursday, October 8 at 09:34 UTC. The contact will occur as part of the National Space Challenge, a program that was created in an effort to instill the talents and desire towards the understanding of space in primary school aged children. Sixteen schools will participate.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled for Belmont Elementary School in Langley, British Columbia, Canada on Friday, October 9 at 20:20 UTC. Students are working

on projects with a ï¿½Mission Controlï¿½ theme and the Langley Amateur Radio
Association (L.A.R.A.) is working with the school to organize this event.

2. Thirsk Participates in ARISS Contact with R.T. Alderman Students

Astronaut Bob Thirsk, VA3CSA participated in an Amateur Radio on the International Space Station (ARISS) contact with students attending R. T. Alderman School in Calgary, Alberta, Canada on Monday, September 28. An audience of 615 people gathered, watched and listened as Thirsk answered 15 questions posed to him by the students. Media coverage was provided by a local television station. After the contact, Thirsk changed the ISS radio beacon text to read, ï¿½Hello to RT Alderman School!ï¿½

3. De Winne Speaks with Lisbon, Portugal Students via ARISS

On Thursday, October 1 an Amateur Radio on the International Space Station (ARISS) contact was held between the Ciï¿½ncia Viva Museum in Lisbon, Portugal and Frank De Winne, ON1DWN onboard the ISS. Ground station ON4ISS in Belgium provide the telebridge connection. An audience

of 300 people gathered and watched as twenty-three questions were asked and answered. The ARISS contact at Ciencia Viva was a major event during

the nationwide celebrated Space Week. The participating students have been working on space projects for two years and they were highly motivated to do this science-related activity.

4. ARISS Contact with University of Liege

An Amateur Radio on the International Space Station (ARISS) contact took

place on Friday, October 2 between the University of Liege in Belgium and on-orbit astronaut Frank De Winne, ON1DWN via telebridge station ON4ISS in Belgium. Eighteen questions were answered before losing contact with the ISS. The University of Liege offers the only aerospace engineering education program in the French part of Belgium. In the context of the OUFTI-1 project (www.oufti.ulg.ac.be) that aims at building a CubeSat featuring the amateur radio D-STAR technology, an amateur radio club was formed at the university.

5. Nicole Stott Participates in ARISS Contact with Italian Students

On Friday, October 2, students attending Scuola Secondaria 1ï¿½ Grado ï¿½Alighieri ï¿½ Trevigiï¿½ in Casale Monferrato, Prov. Alessandria, Italy
participated in an Amateur Radio on the International Space Station (ARISS) contact. The youth asked Nicole Stott, KE5GJN 21 questions as an

audience of 200 students, parents and teachers looked on. Local media provided news coverage. The event was streamed live on the internet and the audio was fed into the EchoLink AMSAT and JK1ZRW servers. The contact motivated the youth to study Science, History, Geography, Information Technology and English.

6. ARISS Contact with Boy Scouts of Canada

On Saturday, October 3, Scouts of Canada in Ottawa, Ontario experienced an Amateur Radio on the International Space Station (ARISS) contact. Three hundred scouts and parents were present as Robert Thirsk VA3CSA answered questions about life and work in space. Thirsk turned over a few questions to Mr. Guy Laliberte, Circ De Soleil president and spaceflight participant. Audio was fed into the EchoLink AMSAT and JK1ZRW servers. The ARISS contact was held in conjunction with the Scout

Science Badge Award system.

7. ARISS News on Amateur Radio Newsline

On October 2, Amateur Radio Newsline Report 1677 reported on Amateur Radio on the International Space Station (ARISS) astronaut licensing. To

view ï¿½Ham Radio in Space: New Ham Astronaut is KF5DBF,ï¿½ see: ftp://ftp.arnewsline.org/quincy/News-A/news.txt

/EX

73,
This week's ANS Editor,
Dee Interdonato, NB2F

123. WSR-281 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-10-12 00:13:09 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000701ca4ad0$bfd01aa0$3f704fe0$@net>
Source record: 522
Cross-posted to: rec.radio.amateur.space,rec.radio.info

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This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-281.S1
WSR 281 Part 1 10/08/2009

AMSAT NEWS SERVICE BULLETIN 281.S1
FROM AMSAT HQ SILVER SPRING, MD, October 08, 2009
TO ALL RADIO AMATEURS
BID: $WSR-281.S1

SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning

Callsign: ZS0SUM

Uplink: 145.880MHz FM
Downlink: 435.350MHz FM
[10042009]
==DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialh
[02122009]
==VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920Mhz FM
Downlink: 435.300Mhz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol

1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial
[10042009]
==SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
==FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
==AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
==AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev
Flight participant: Guy Laliberti¿½

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)

Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[10042009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-281.S2
WSR 281 Part 2 10/08/2009

AMSAT NEWS SERVICE BULLETIN 281.S2
FROM AMSAT HQ SILVER SPRING, MD, October 08, 2009
TO ALL RADIO AMATEURS
BID: $WSR-281.S2

SwissCube
Catalog Number: 35932?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[10042009]
==UWE-2
Catalog Number: 35935?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[10042009]
==ITUpsAT1
Catalog Number: 35934?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[10042009]
==BEESAT
Catalog Number: 35933?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[10042009]
==Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
==Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
==BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
==AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
==CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
==HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
==Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
==ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
==SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial1
[03232009]
==KAGAYAKI (Solan Co.)
Catalog Number: 33495?

Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
==STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial□

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID1&retURL
=/satellites/status.php
[022152009]
==KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial7

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID0&retURL
=/satellites/status.php
[02212009]
==PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial☐

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID9&retURL
=/satellites/status.php
[02212009]
==RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID5&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caidC
[02122009]
==CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID☐&retURL
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialr
[02122009]

==CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
==GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
==CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
==CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID□&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
==CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialV
[02122009]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol

1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial
[10042009]
==QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
==CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satIDi&retURL
=/satellites/status.php
[02212009]
==NO-44 PCSAT
Catalog number: 26931

Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
==GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID&retURL
=/satellites/status.php
[04272009]
==RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satIDv&retURL

=/satellites/status.php
[02212009]
==LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
==CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialF
[02212009]
==AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial`
[02212009]
==CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialx

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID2&retURL
=/satellites/status.php
[02212009]
==Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialR

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID4&retURL
=/satellites/status.php
[04272009]
==CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial6

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID3&retURL
=/satellites/status.php
[02212009]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Gennady Padalka RN3DT
Flight Engineer: Michael Barratt KD5MIJ
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Frank De Winne ON1DWN
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams
Flight Engineer: Maxim Suraev
Flight participant: Guy Laliberti¿½

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[10042009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-281.S3
WSR 281 Part 3 10/08/2009

AMSAT NEWS SERVICE BULLETIN 281.S3
FROM AMSAT HQ SILVER SPRING, MD, October 08, 2009
TO ALL RADIO AMATEURS
BID: $WSR-281.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialy
[10022008]
==LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
==PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
==NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
==XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
==UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
==CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
==DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID1&retURL
=satellites/all_oscars.php
[02212009]
==AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
==MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
==NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
==SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
==SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
==AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
==OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
==UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
==SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
==PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
==SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
==TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
==MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
==PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
==IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
==KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
==KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12

[01222007]
==UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
==AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
==FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
==WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
==DO-17 Dove

Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
==AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
==UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
==UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]

==FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
==UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
==AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
==AO-8 AMSAT-OSCAR 8
Catalog Number: 10703

Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
==AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
==AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
==OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
==RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
==RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
==RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-281.S4
WSR 281 Part 4 10/08/2009

AMSAT NEWS SERVICE BULLETIN 281.S4
FROM AMSAT HQ SILVER SPRING, MD, October 08, 2009
TO ALL RADIO AMATEURS
BID: $WSR-281.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
==NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
==NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
==HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
==SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

124. ANS-291 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-10-18 01:41:10 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201ca4f94$09b39a80$1d1acf80$@net>
Source record: 523
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-291

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

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* AMSAT thanks Frank Bauer, KA3HDO and Janet Bauer and the entire *
* 2009 Symposium Team for a spectacular and inspiring event! *
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In this edition:

* AMSAT Says "We're Going Back to Space"
* AMSAT, IBM, SUNY-Binghamton Announce NextGen CubeSat Development
* Discussions Continue For New AMSAT Lab Site
* Canadian Hams to Share 430-450 MHz With Military System
* AO-51 Operations Schedule Posted
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-291.01
AMSAT Says "We're Going Back to Space"

AMSAT News Service Bulletin 291.01
>From AMSAT HQ SILVER SPRING, MD.
October 18, 2009
To All RADIO AMATEURS
BID: $ANS-291.01

The Board of Directors has adopted the Engineering Task Force recommendation that low-cost launch options be immediately pursued. The AMSAT engineering team will develop a 1U CubeSat design effective immediately. Tony Monteiro, AA2TX, Vice-President of Engineering said, "We are recommending an approach that gets AMSAT back up in space with new satellites by leveraging the skills and technology we have today."

The new AMSAT CubeSat's initial capability is planned to add to the popular low-earth orbit FM transponder fleet allowing hams to continue to use their existing handheld and portable antenna systems. This also allows an accessible entry path for new satellite operators to get

started. The existing FM satellites are starting to show their age.

The flight version of ARISSat-1 has been developed to fit into the CubeSat model. AMSAT's flexible Software Defined Transponder (SDX), simplified IHU, power control subsystem, external interfaces to experimental payloads and cameras will now allow a modular approach to mission design using proven subsystems and components. The ARISSat-1 mission planned in 2010 will be the initial flight test of AMSAT's modular satellite.

Here are some of the highlights ...

+ AMSAT will develop comparable AO-51 level of performance packaged into a 1U CubeSat. This includes a U-V transponder, V telemetry, U command receiver, IHU, power control. This can be done with our modular design.

+ This will be a U/V FM Transponder, not done before in a 1U CubeSat, which can be worked with a HT and a simple antenna. CubeSat power limitations are planned to be addressed through research and development of deployable solar-cells.

+ AMSAT will make our open-design satellite modules and technology available for other satellite teams to build into their missions.

+ This new approach will provide a reliable radio link for future CubeSats allowing university teams to concentrate on their scientific objectives.

+ The modular nature of the AMSAT CubeSat system will allow add-on missions utilizing several different types of modulation and bandwidth. These can be pursued with future low-cost CubeSat launch opportunities.

AMSAT President, Barry Baines, WD4ASW Annual Meeting Powerpoint Presentation has been posted at http://www.amsat.org

[ANS thanks the AMSAT Board of Directors for the above information]

/EX

SB SAT @ AMSAT $ANS-291.02
AMSAT, IBM, SUNY-Binghamton Announce NextGen CubeSat Development

AMSAT News Service Bulletin 291.02
>From AMSAT HQ SILVER SPRING, MD.
October 18, 2009
To All RADIO AMATEURS
BID: $ANS-291.02

AMSAT will work with a university student engineering team to develop the NextGen Cubesat.

NextGen Program Manager, Alex Harvilchuck, N3NP introduced this new program at the AMSAT Symposium. Alex revealed program goals and its

initial plans with a paper in the Proceedings and presentations to the AMSAT Board of Directors and to the attendees during Symposium sessions.

NextGen consists of AMSAT volunteer mentors working with IBM Global Services Systems Engineering Division, and SUNY-Binghamton (also called University of Binghamton) senior level engineering students participating in their 'capstone' engineering project.

Alex summarized the NexGen program goals:

+ Intial analysis of ARISSat-1, documenting the systems, and analysis of the lessons learned from ARISSat-1 and other prior spacecraft to create a building block architecture for future satellites.

+ Open, modular, evolutionary, and documented design based on this analysis.

+ Redesigning the ARISSat-1 Power Systems into a next generation power system using supercapacitors instead of batteries and reducing the footprint of some of the boards.

+ Analysis and modification to the structure to incorporate deployable solar panels with a scalable design that will work for 1U, 2U and 3U sizes.

+ Design a Picosat-class bus structure that AMSAT, or any other University, can use for 1U, 2U, or 3U CubeSat spacecraft. AMSAT could make the open design available at low-to-no-cost to qualified University groups.

+ An Engineering Model of the NextGen CubeSat spacecraft bus will be on display at the Dayton Hamvention AMSAT Booth for everyone to study.

Alex summarized, "Starting with our initial core team of 34 students, plus advisers, mentors and volunteers at Binghamton University this will be an ongoing effort. It is not a one time event, but the start of a stable, evolutionary design process that will further STEM (Science, Technology, Engineering & Mathematics) with the Next Generation of engineers and amateur radio operators. We are looking for other individuals and University/School teams to participate in all aspects of the spacecraft design - RF Systems - Guidance, Navigation, Control & Experiment Systems - Power & Structure Systems."

Volunteer mentors are needed! Even if you only have an hour a week, you can mentor a student over the phone or you can peer review a document that the students are working on. If you have more than an hour a week, you can implement a small design change to an existing subsystem; you could respin the board layout to meet a reduced form factor; you could redesign a module to use different technology. Contact Alex via e-mail at amsat@elkmtn.org .

AMSAT's Board of Directors has approved the support of the University of Binghamton NextGen Cubesat Proposal and agreed to provide $1,200.00 in immediate funding to the Binghamton Foundation to support student expenses and initially budgeted $10,000.00 to cover material costs associated with hardware development between September 2009 and May 2010. The Board will review progress at the end of the first semester.

[ANS thanks Alex, N3NP and AMSAT Board of Directors for the above information]

/EX

SB SAT @ AMSAT $ANS-291.03
Discussions Continue For New AMSAT Lab Site

AMSAT News Service Bulletin 291.03
>From AMSAT HQ SILVER SPRING, MD.
October 18, 2009
To All RADIO AMATEURS
BID: $ANS-291.03

AMSAT President, Barry Baines, WD4ASW discussed an opportunity under serious discussions with the University of Florida, Gainesville to locate AMSAT's satellite laboratory on campus.

Among discussions over the past 12 months, AMSAT has had conversations with several universities concerning a potential relationship. This opportunity arose out of an amateur radio talk given at The Villages ARC by Dave, AA4KN and Drew, KO4MA in April. This lead to contact with UF's Dr. Norman Fitz-Coy. A Memorandum of Understanding has been drafted and is currently under review by legal teams. At this time there is no timeframe for bringing about a formal conclusion as the MOU discussions continue and internal UF approval still needed.

Relocating the AMSAT Lab from the 'Eastern Shore' to 'The Swamp' offers significant potential:

+ Location on a major university campus in a state-of-the-art building

+ Integrated into a facility focused on small satellite development with clean room installation at the host's expense (not AMSAT)

+ Potential for student projects focused on AMSAT needs

+ Broadening of AMSAT's presence in the wider university community

+ Potential research/development opportunities for AMSAT and AMSAT members

+ Establishing a program that offers significant traction for education outreach

[ANS thanks AMSAT President, Barry Baines, WD4ASW for the above information]

/EX

SB SAT @ AMSAT $ANS-291.04
Canadian Hams to Share 430-450 MHz With Military System

AMSAT News Service Bulletin 291.04
>From AMSAT HQ SILVER SPRING, MD.
October 18, 2009
To All RADIO AMATEURS
BID: $ANS-291.04

Amateur Radio Newsline #1678 reported that Industry Canada has informed Radio Amateurs of Canada that it has authorized the Department of National Defense to use a digital system called Enhanced Position Location Reporting System or EPLRS in the 430 to 450 MHz shared 70 centimeter band. The EPLRS system consists of mobile, fixed, transportable and airborne stations that use 5 MHz-wide spread spectrum channels to provide strategic telemetry information for military platforms.

This authorization is on a no-protection, non-interference basis, which means that no new restrictions will be imposed on Canadian amateur operations in this band as a result. Industry Canada says that there is a slight chance of minor interference to amateur radio systems. Typically in the form of a minor audible clicking noise. If Canadian amateurs encounter such interference, they are requested to report it by e-mail to Radio Amateurs of Canada at regulatory at rac dot ca. The information reported should include the geographical location, date, time, frequency and mode being used by the amateur station, and a description of theinterference.

[ANS thanks Amateur Radio Newsline Report 1678 and RAC for the above information]

/EX

SB SAT @ AMSAT $ANS-291.05
AO-51 Operations Schedule Posted

AMSAT News Service Bulletin 291.05
>From AMSAT HQ SILVER SPRING, MD.
October 18, 2009
To All RADIO AMATEURS
BID: $ANS-291.05

The AO-51 command team has posted the operating schedule for the remainder of October. For the latest Command Team and Operations Group news about AO-51 refer to:
http://www.amsat.org/amsat-new/echo/CTNews.php

October 17 - October 18

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

JOTA Only FM Repeater, V/U
Please give way to JOTA stations or QSOs with JOTA stations
Uplink: 145.880 MHz FM
Downlink: 435.150 MHz FM

October 19 - October 25

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 9k6 FM

October 26 - November 1

FM Repeater, V/US
Uplink: 145.920 MHz FM
Downlink: 435.300 and 2401.200 MHz FM

[ANS thanks AO-51 Command Team Member Mark, N8MH for the above information]

/EX

SB SAT @ AMSAT $ANS-291.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 291.06
>From AMSAT HQ SILVER SPRING, MD.
October 18, 2009
To All RADIO AMATEURS
BID: $ANS-291.06

+ The American Radio Relay League (ARRL) has a feature story on the ARISS antennas that will be launched to the ISS on STS-129 in mid-November and installed on the Columbus module during the mission's second spacewalk. See:
http://www.arrl.org/news/features/2009/10/05/11110/?nc=1

+ Mineo Wakita, JE9PEL reports that at present FO-29 is only turned on once a week over Japan for testing of its power system.

+ Bob, N4HY has uploaded his camera phone pictures from the 2009 Symposium at http://twitpic.com/photos/rwmcgwier

+ Although EME is a bit off topic, every ham wishes for antennas like these. Here is a video from the Echoes of Apollo event:
http://www.youtube.com/watch?v=AHGXp4Afr4g&feature=related

+ Amateur satellite operators in range of the west coast will have an opportunity to work W6FOG as he sails from San Francisco to Puerto Vallarta departing on 10/19/09. Neil will be working many of the ocean grids on the way.

+ Jim, ND9M/VQ9JC is presently deployed on a Navy ship heading for Sumatra on a humanitarian mission with fresh water for the victims of the recent earthquakes there. Jim has been active with his FT897 (TX) and the FT817 (RX) using an Arrow antenna and a UPS battery for power. He operates from the Helicopter Pad on the ship. JIm says, "There isn't much activity in the Indian Ocean but he is working VU's and E21's and handing out rare water grids!"

+ Hams like science so here are a couple of links to follow.

National Geographic has a zoomable map of space exploration http://books.nationalgeographic.com/map/map-day/index After you close the opening text screen you will see the image zoom control in the top right of the page.

This page contains an embedded video, "Do the Oceans of Jupiter's Europa Harbor Life?"

http://www.dailygalaxy.com/my_weblog/2009/10/europas-ice-sheet-enables-an-oxygenrich-ocean.html

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that please keep in mind if you want to travel fast, travel alone. If you want to travel far, travel together. If you want to travel in comfort, fake an ankle sprain and convince the other travelers to carry you.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

125. WSR-291 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-10-18 13:32:01 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000301ca4ff7$575316e0$05f944a0$@net>
Source record: 524
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-291.S1
WSR 291 Part 1 10/18/2009

AMSAT NEWS SERVICE BULLETIN 291.S1
FROM AMSAT HQ SILVER SPRING, MD, October 18, 2009
TO ALL RADIO AMATEURS
BID: $WSR-291.S1

SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning

Callsign: ZS0SUM

Uplink: 145.880MHz FM
Downlink: 435.350MHz FM
[10042009]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920Mhz FM
Downlink: 435.300Mhz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25

Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10042009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530

Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[10182009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-291.S2
WSR 291 Part 2 10/18/2009

AMSAT NEWS SERVICE BULLETIN 291.S2
FROM AMSAT HQ SILVER SPRING, MD, October 18, 2009
TO ALL RADIO AMATEURS
BID: $WSR-291.S2

SwissCube
Catalog Number: 35932?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[10042009]
=====
UWE-2

Catalog Number: 35935?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[10042009]
=====
ITUpsAT1
Catalog Number: 35934?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[10042009]
=====
BEESAT
Catalog Number: 35933?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[10042009]
=====
Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
=====
BEVO-1 (DRAGONSAT-1)

Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====

KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375

Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10042009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.

[10042009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-291.S3
WSR 291 Part 3 10/18/2009

AMSAT NEWS SERVICE BULLETIN 291.S3
FROM AMSAT HQ SILVER SPRING, MD, October 18, 2009
TO ALL RADIO AMATEURS
BID: $WSR-291.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-291.S4
WSR 291 Part 4 10/18/2009

AMSAT NEWS SERVICE BULLETIN 291.S4
FROM AMSAT HQ SILVER SPRING, MD, October 18, 2009
TO ALL RADIO AMATEURS
BID: $WSR-291.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

126. ANS-294 AMSAT News Service Special Bulletin SumbandilaSat Designated as SO-67

Newsgroup: rec.radio.amateur.space
Date: 2009-10-22 02:12:25 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <003201ca52bd$12967fb0$37c37f10$@net>
Source record: 525
Cross-posted to: rec.radio.amateur.space,rec.radio.info

SB SAT @ AMSAT $ANS-294.01
SumbandilaSat Designated as SO-67

AMSAT News Service Bulletin 294.01
>From AMSAT HQ SILVER SPRING, MD.
October 21, 2009
To All RADIO AMATEURS
BID: $ANS-294.01

AMSAT's OSCAR Number Coordinator Bill Tynan, W3XO announced he has received an e-mail sent to the AMSAT-NA Board of Directors by Hans van de Groenendaal, ZS6AKV, Secretary SA AMSAT requesting that an OSCAR number be allocated to SumbandilaSat.

In the e-mail Hans states that the amateur radio transponder on SumbandilaSat was successfully switched on from the ground by ZS6BPZ during the test phase on Sunday 18 October 2009 and that several QSOs were made through the transponder.

The amateur radio payload on SumbandilaSat was developed by SA AMSAT and incorporated by the University of Stellenbosch into the main payload. The SA AMSAT payload was officially coordinated through the IARU Satellite Frequency Coordination Panel with an uplink of 145.880 and downlink of 435.350 MHz

Bill replied, "Therefore, by the authority vested in me by the AMSAT-NA President, I hereby designate this latest amateur radio satellite as SumbandilaSat Oscar 67 or SO-67. On behalf of AMSAT-NA and the world's amateur radio satellite community I congratulate those responsible for building, testing and launching this new satellite. May it have a long and successful life."

[ANS thanks Bill Tynan, W3XO for the above information]

/EX

127. ANS-298 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-10-26 18:57:30 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000c01ca566e$069b9010$13d2b030$@net>
Source record: 526
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-298

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* New AO-51 Whole Orbit Data decoder released
* SumbandilaSat Designated as SO-67
* New items for sale at the AMSAT online store
* New EMI Calculator Available From Australian ACMA
* Satellite Shorts From All Over
* Iran May Put Satellite in the Ham Satellite Bands
* ARISS Status - 19 October 2009

SB SAT @ AMSAT $ANS-298.01
New AO-51 Whole Orbit Data decoder released

AMSAT News Service Bulletin 298.01
From AMSAT HQ SILVER SPRING, MD.
October 25, 2009
To All RADIO AMATEURS
BID: $ANS-298.01

Thanks to our resident telemery guru Mike Rupprecht DK3WN a new AO-51 whole orbit data (WOD) telemetry decoder has been released! The file with decoder and coefficients file can be downloaded from here:

http://www.dk3wn.info/files/ao51wod.zip

The AO-51 telemetry archive is on the AMSAT FTP server. DK3WN's new decoder is for processing "raw" WOD telemetry files. For example, the WOD data collected for October 2009 is here:

ftp://ftp.amsat.org/pub/amsat/telemetry/ao51/2009WOD/Oct2009/raw1009/

The decoder generates a .CSV (comma separated) file that can be opened in Excel, etc. A nice feature is that the telemetry program actually graphs the data, too!

THANKS, Mike DK3WN!

[ANS thanks Mark, N8MH, for the above information]

/EX

SB SAT @ AMSAT $ANS-298.02
SumbandilaSat Designated as SO-67

AMSAT News Service Bulletin 298.02
From AMSAT HQ SILVER SPRING, MD.
October 25, 2009
To All RADIO AMATEURS
BID: $ANS-298.02

AMSAT's OSCAR Number Coordinator Bill Tynan, W3XO announced he has received an e-mail sent to the AMSAT-NA Board of Directors by Hans van de Groenendaal, ZS6AKV, Secretary SA AMSAT requesting that an OSCAR number be allocated to SumbandilaSat.

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You can hear more of these initial and QSO's through this new South African ham radio satellite at:
http://previews.matogen.com/sunspace/assets/galleries/sounds/Sumbandila-FirstActivePass-Recording-2009-10-18.mp3

[ANS thanks Bill Tynan, W3XO and SA AMSAT for the above information]

/EX

SB SAT @ AMSAT $ANS-298.03
New items for sale at the AMSAT online store

AMSAT News Service Bulletin 298.03
From AMSAT HQ SILVER SPRING, MD.
October 25, 2009
To All RADIO AMATEURS
BID: $ANS-298.03

Did you miss the symposium? Now available at the AMSAT online store --
a 40th Anniversary Tote as well as the Proceedings of the Symposium.
Get yours while supplies last.

[ANS thanks Bruce, KK5DO, for the above information]

/EX

SB SAT @ AMSAT $ANS-298.04
New EMI Calculator Available From Australian ACMA

AMSAT News Service Bulletin 298.04
From AMSAT HQ SILVER SPRING, MD.
October 25, 2009
To All RADIO AMATEURS
BID: $ANS-298.04

Australia's Swinburne University, together with EM Software and
Systems, has developed an online tool that will allow users to
calculate exclusion zones around antennas where radiation levels
exceed safety standard limits.

Commissioned by the Australian Communications and Media Authority,
the exclusion zone calculator will allow people to conduct safety
assessments of transmitting antennas, such as those found on boats,
four wheel drives, at fixed station locations and even communication
networks operating in the VHF and UHF spectrum. This includes ham
bands from 2 meters on up through 2.4 GHz.

To calculate the zone, all users need to do is enter the antenna
type, transmitter power, antenna gain and frequency band into the
online tool. Click your mouse and the program will automatically
calculate the safe distance around the antenna in metric distance.

The ACMA has also produced a booklet entitled Human Exposure to
Radio Frequency Electromagnetic Radiation Information for Licensees
of Radio-Communications Transmitters. Both the on-line tool and
a booklet that explains EME health exposure can be found at:
http://www.acma.gov.au. (ACMA)

[ANS thanks ACMA and Amateur Radio Newsline Report 1679 for the
above information]

/EX

SB SAT @ AMSAT $ANS-298.05
Satellite Shorts From All Over

AMSAT News Service Bulletin 298.05
From AMSAT HQ SILVER SPRING, MD.
October 25, 2009
To All RADIO AMATEURS
BID: $ANS-298.05

+ The AMSAT Symposium was held over the October 9 - 11 weekend in Baltimore, Maryland. AMSAT President Barry Baines' presentation has been posted to the AMSAT Web site. A video of symposium high lights was put together and has been posted on YouTube. See: http://www.youtube.com/watch?v=1efXlL75dvA

+ Drew, KO4MA says the QSL cards for the July Apollo anniversary event on AO-51 have arrived and he is starting on the stack this weekend. He is pretty sure they should all be in the mail by next week and thanks all for the interest and support.

+ For those going to the Ft. Wayne, Ind. Hamfest, Nov. 14-15, there will be an AMSAT Forum on Sat. the 14th at 1:15pm. There is also an APRS forum on Sun. 15 Nov. at 10 am. More info can be found at: http://www.fortwaynehamfest.com

+ Page 43 of the October issue of SatMagazine features an article on CubeSats titled 'A Costing + Pricing Challenge', see: http://www.satmagazine.com/2009/SatMag_Oct09.pdf

+ USA Today has a flash graphic showing the step-by-step construction of the International Space Station: http://i.usatoday.net/tech/graphics/iss_timeline/flash.htm

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-298.06
Iran May Put Satellite in the Ham Satellite Bands

AMSAT News Service Bulletin 298.06
From AMSAT HQ SILVER SPRING, MD.
October 25, 2009
To All RADIO AMATEURS
BID: $ANS-298.06

The SouthGate Amateur Radio News Site and Amateur Radio Newsline reported this week there is a possibility that Iran's Mesbah-2 satellite, slated for launch early 2010, could operate on frequencies allocated to the Amateur Satellite Service.

An on-line report at astronautix.com says that the original Mesbah satellite, lost in a 2005 launch failure, was to have operated on Amateur Satellite Service frequencies. Now its being reported that Iran's Minister of Communications and Information Technology, Reza Taqipour, has said that the replacement Mesbah satellite has successfully completed pre-launch tests and is now ready for liftoff early next year.

Most observers think that there will be little difference between the transponder set-up between the lost Mesbah satellite on the new replacement bird. See: http://www.astronautix.com/craft/mesbah2.htm

[ANS thanks SouthGate and Amateur Radio Newsline Report 1680 for
the above information]

/EX

SB SAT @ AMSAT $ANS-298.07
ARISS Status - 19 October 2009

AMSAT News Service Bulletin 298.07
From AMSAT HQ SILVER SPRING, MD.
October 25, 2009
To All RADIO AMATEURS
BID: $ANS-298.07

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been
scheduled with Copernicus Science Centre in Warsaw, Poland on Tuesday,
October
27 at 09:33 UTC via telebridge station VK4KHZ in
Australia. The centre organized
a student competition for naming asteroids, using rules of the science
naming
process. In October the winners travel to Warsaw for the competition finale
and
will take part in the ARISS event.

Sherbrooke Community School in Sassafras,
Victoria, Australia has been scheduled
for an Amateur Radio on the International Space Station (ARISS) contact on
Wednesday, October 28 at 07:13 UTC. This will be a telebridge contact via
station W6SRJ in California. Sherbrooke Community School fosters student
participation and the advancement of amateur
radio in the community. It operates
Sherbrooke Community Club station, VK3KID. The school has invited
representatives from neighboring schools to pose
questions to the astronauts and
asked its sister schools in China and Bhutan to also submit questions for
students to ask the ISS crew.

David Thompson Middle School (DTMS) in Calgary, Alberta, Canada has been
scheduled for an Amateur Radio on the International Space Station (ARISS)
contact on Friday, October 30 at 21:12 UTC via station LU8YY in Argentina.
DTMS
and the University of Calgary's science department have collaborated on this
event.

2. ARISS Contact Between Thirsk and Boundary Beach Students

On Tuesday, October 13, students from Boundary
Beach Elementary School in Delta,
British Columbia, Canada spoke with astronaut Robert Thirsk, VA3CSA on the
ISS
via an Amateur Radio on the International Space Station (ARISS) contact.

Seventeen questions were answered, including one from the radio team. The contact was made possible through the Langley Amateur Radio Association. To prepare for the contact, students got involved in many space related activities
and participated in Dr. Thirsk's "Get Fit for Space" program.

3. Glenmore Christian Academy Experiences ARISS Contact

An Amateur Radio on the International Space Station (ARISS) contact occurred on
Wednesday, October 14 between Glenmore Christian Academy students in Calgary,
Alberta, Canada and Robert Thirsk, VA3CSA. Nearly six hundred students, teachers, parents and guests gathered to watch
the youth ask 20 questions of the
astronaut. CBC (Canadian Broadcasting
Corporation) and CTV (Canadian television)
covered the event.

4. ARISS Contact with UNICEF - Mali

Children in Gao, Mali participated in an Amateur Radio on the International Space Station (ARISS) contact on Thursday, October 15 via telebridge station K6DUE in Maryland. The contact was held as part of the UNICEF WaSH (Water, Sanitation, Hygiene) campaign. Astronaut Frank De Winne, ON1DWN, a UNICEF Belgium goodwill ambassador, spoke to the children, answering 5 questions.

5. ARISS - JOTA Contact Unsuccessful

An Amateur Radio on the International Space Station (ARISS) contact was scheduled for Jamboree on the Air (JOTA), Boy Scouts of America Headquarters in
Irving, Texas on Saturday, October 17. Due to technical difficulties, the contact did not take place. Contact demonstrations on other satellites were given during the day, however, and there was an amateur radio balloon flight as
well. Scouts also took part in a Jamboree on the Internet (JOTI) activity. Approximately 400 Scouts, parents and officials attended the event.

6. NASA Reports on ARISS Contact

NASA posted as one of its "Daily Top Stories" an article from the Vancouver Sun
about the October 9 Amateur Radio on the International Space Station (ARISS) contact with Belmont Elementary School:

Hundreds Of Students "Enthralled" Talking To ISS Astronaut. The Vancouver Sun
(10/10, 178K) reported, "Canadian astronaut Robert Thirsk zipped through the heavens above Langley's Ecole Belmont elementary school Friday, riding the International Space Station and chatting with 533 enthralled students." The event was organized by "ARISS (Amateur Radio International Space Station), a NASA- sponsored educational outreach program." According to the article,

"Judging by the reaction of the children sitting cross-legged in the gym, the
program was an obvious hit."

[ANS thanks Carol, KB3LKI, for the above information]

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In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

128. WSR-299 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-10-27 12:03:41 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901ca56fd$7e7630b0$7b629210$@net>
Source record: 527
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-299.S1
WSR 299 Part 1 10/26/2009

AMSAT NEWS SERVICE BULLETIN 299.S1
FROM AMSAT HQ SILVER SPRING, MD, October 26, 2009
TO ALL RADIO AMATEURS
BID: $WSR-299.S1

SO-67 SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning

Callsign: ZS0SUM

Uplink: 145.880MHz FM
Downlink: 435.350MHz FM
[10262009]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920Mhz FM
Downlink: 435.300Mhz FM
Downlink: 2401.200MHz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol

2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10262009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530

Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[10182009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-299.S2
WSR 299 Part 2 10/26/2009

AMSAT NEWS SERVICE BULLETIN 299.S2
FROM AMSAT HQ SILVER SPRING, MD, October 26, 2009
TO ALL RADIO AMATEURS
BID: $WSR-299.S2

SwissCube
Catalog Number: 35932?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[10042009]
=====
UWE-2

Catalog Number: 35935?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[10042009]
=====
ITUpsAT1
Catalog Number: 35934?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[10042009]
=====
BEESAT
Catalog Number: 35933?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[10042009]
=====
Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
=====
BEVO-1 (DRAGONSAT-1)

Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====

KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375

Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920Mhz FM
Downlink: 435.300Mhz FM
Downlink: 2401.200MHz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10262009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.

[10042009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-299.S3
WSR 299 Part 3 10/26/2009

AMSAT NEWS SERVICE BULLETIN 299.S3
FROM AMSAT HQ SILVER SPRING, MD, October 26, 2009
TO ALL RADIO AMATEURS
BID: $WSR-299.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-299.S4
WSR 299 Part 4 10/26/2009

AMSAT NEWS SERVICE BULLETIN 299.S4
FROM AMSAT HQ SILVER SPRING, MD, October 26, 2009
TO ALL RADIO AMATEURS
BID: $WSR-299.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

129. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.space
Date: 2009-11-01 07:00:03 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1257058800@panix.com>
Source record: 528
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

130. ANS-305 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-11-01 19:49:12 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001ca5b2c$6093ad60$21bb0820$@net>
Source record: 529
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-305

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Ares I-X Completes a Successful Flight Test
* Call for Papers
* 500th School Contact
* LUSAT-1 Silent
* ARISS Status

SB SAT @ AMSAT $ANS-305.01
Ares I-X Completes a Successful Flight Test

AMSAT News Service Bulletin 305.01
From AMSAT HQ SILVER SPRING, MD.
November 1, 2009
To All RADIO AMATEURS
BID: $ANS-305.01

Ares I-X Completes a Successful Flight Test
NASA's Ares I-X test rocket lifted off Oct. 28, 2009, at 11:30 a.m. EDT from Kennedy Space Center in Florida for a two-minute powered flight. The flight test lasted about six minutes from its launch from the newly modified Launch Complex 39B until splashdown of the rocket's booster stage nearly 150 miles downrange.

The 327-foot-tall Ares I-X test vehicle produced 2.6 million pounds of thrust to accelerate the rocket to nearly 3 g's and Mach 4.76, just shy of hypersonic speed. It capped its easterly flight at a suborbital altitude of 150,000 feet after the separation of its first stage, a four-segment solid rocket booster.

Parachutes deployed for recovery of the booster and the
solid rocket motor, which were recovered at sea and will
be towed back to Florida by the booster recovery ship,
Freedom Star, for later inspection. The simulated upper
stage and Orion crew module, and the launch abort
system will not be recovered.

The flight test is expected to provide NASA with an
enormous amount of data that will be used to improve
the design and safety of the next generation of
American spaceflight vehicles, which could again
take humans beyond low Earth orbit.

[ANS thanks NASA for this info]

/EX

SB SAT @ AMSAT $ANS-305.02
Call for Papers

AMSAT News Service Bulletin 305.02
From AMSAT HQ SILVER SPRING, MD.
November 1, 2009
To All RADIO AMATEURS
BID: $ANS-305.02

Call for Papers 14th Annual Southeastern VHF Society Conference
April 23rd and 24th, 2010 Morehead State University in Morehead,
Kentucky.

The Southeastern VHF Society is calling for the submission of papers
and presentations for the upcoming 14th Annual Southeastern VHF
Society Conference to be held at Morehead State University in Morehead,
KY on April 23rd and 24th, 2010. Papers and presentations are solicited
on both the technical and operational aspects of VHF, UHF and Microwave
weak signal amateur radio.

The deadline for the submission of papers and presentations is February 5,
2010. All submissions for the proceedings should be in Microsoft Word
(.doc). Submissions for presentation at the conference should be in
PowerPoint (.ppt) format, and delivered on either a USB memory stick or
CDROM or posted for download on a web site of your choice.

For further information about the conference
please go to http://www.svhfs.org

Thank you,
Robin Midgett K4IDC
2010 Program Chair, SVHFS

[ANS thanks SVHFS for the above information]

/EX

SB SAT @ AMSAT $ANS-305.03
500th School Contact

AMSAT News Service Bulletin 305.03
From AMSAT HQ SILVER SPRING, MD.
November 1, 2009
To All RADIO AMATEURS
BID: $ANS-305.03

ARISS celebrates 500th school space contact

ARISS Chairman Gaston Bertels, ON4WF noted that on Tuesday, 27 October 2009, ISS Commander Frank De Winne, ON1DWN answered questions from students participating to a venue at the brand new Copernic Science Center in Warsaw, Poland. This was the 500th School Contact since ARISS began operations in the year 2000. Schools in all continents benefit from ARISS educative School Contacts.

This telebridge contact was operated by ARISS ground station VK4KHZ located in Glenden, Queensland, Australia. At the end of the contact, Frank thanked Shane Lynd VK4KHZ - for the many ARISS telebridge contacts he'd already performed. Shane shares these thanks with his colleagues of the 11 ARISS telebridge ground stations which cover all five continents.

October 15, 2009 students in Gao, Mali talked with UNICEF good will ambassador Frank De Winne onboard the ISS and 23 October, students in Mbour, Senegal got answers to their questions, direct from space. During the same orbit, Frank De Winne also talked with students in Ieper, Belgium.

Audio recordings of the Warsaw and Ieper school contacts are available at http://www.ariss-eu.org/archive.htm.

ARISS is an international educational outreach program partnering the participating space agencies, NASA, Russian Space Agency, ESA, CNES, JAXA, and CSA, with the AMSAT and IARU organizations from participating countries.

ARISS offers an opportunity for students to experience the excitement of Amateur Radio by talking directly with crewmembers onboard the International Space Station. Teachers, parents and communities see, first hand, how Amateur Radio and crewmembers on ISS can energize youngsters' interest in science, technology and learning.

[ANS thanks ARISS Chairman Gaston Bertels, ON4WF and SouthGate for the above information]

/EX

SB SAT @ AMSAT $ANS-305.04
LUSAT-1 Silent

AMSAT News Service Bulletin 305.04
From AMSAT HQ SILVER SPRING, MD.
November 1, 2009
To All RADIO AMATEURS
BID: $ANS-305.04

LUSAT-1 Silent

AMSAT-Argentina reported LUSAT-1, LO-19 stopped transmitting CW telemetry on 437.125 MHz around October 20. Ignacio, LU1ESY reported he last received a signal on October 11 after which he noted a drift in the downlink frequency beyond the expected doppler shift.

AMSAT-Argentina says, "We hope to re-live LUSAT to allow him to celebrate its 20 years in space next January 23. We welcome any reception reports!"

[ANS thanks AMSAT-Argentina for the above information]

/EX

SB SAT @ AMSAT $ANS-305.05
ARISS Status

AMSAT News Service Bulletin 305.05
From AMSAT HQ SILVER SPRING, MD.
October 26, 2009
To All RADIO AMATEURS
BID: $ANS-305.05

1. Recent & Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been completed with Copernicus Science Centre in Warsaw, Poland on Tuesday, October 27 at 09:33 UTC via telebridge station VK4KHZ in Australia. The centre organized a student competition for naming the asteroids, using rules of the science naming process. This month the winners travelled to Warsaw for the competition finale and will take part in the ARISS event.

Sherbrooke Community School in Sassafras, Victoria, Australia has been completed for an Amateur Radio on the International Space Station (ARISS) contact on Wednesday, October 28 at 07:13 UTC. This will be a telebridge contact with station W6SRJ in California. The school fosters student participation and the advancement of amateur radio in the community. It operates Sherbrooke Community Club station, VK3KID. The school invited representatives from neighboring schools to pose questions to the astronauts and asked its sister schools in China and Bhutan to also submit questions for students to ask the ISS crew.

David Thompson Middle School (DTMS) in Calgary, Alberta, Canada has been completed for an Amateur Radio on the International Space Station (ARISS) contact on Friday, October 30 at 21:12 UTC via station LU8YY in Argentina. DTMS and the University of Calgary's

science department will collaborate on this event.

2. Italian Students Contact Astronaut Frank De Winne via ARISS

On Tuesday, October 20, students attending Istituto Comprensivo "Romualdo TRIFONE" in Montecorvino Rovella, Salerno, Italy participated in an Amateur Radio on the International Space Station (ARISS) contact with Frank DeWinne, ON1DWN on the ISS. To prepare for the contact, teachers partnered with astrophysicists of the Astronomical Observatory "Giancamillo Glorious" in M. Rovella and the local amateur radio group ARI Salerno. Assistance was provided by the amateur radio station in "Alighieri Trevigi" School, located in Casale Monferrato, Italy. The school used a combination of a direct and telebridge contact to avoid local obscurations.
An audience of more than 40 (Casale Monferrato) and 450 (Montecorvino Rovella) students, teachers and visitors gathered for the event and the webcast received over 500 connections. Regional television, local media and newspapers covered the news.

3. ARISS Contact with Senegal Students

On Friday, October 23, C. E. M. IV in Mbour, Senegal experienced an Amateur Radio on the International Space Station (ARISS) contact with Frank De Winne, ON1DWN on the ISS. Students asked twenty questions of the astronaut. Swiss astronaut Claude Nicollier, HB9CN also participated in a videoconference with the youth. C. E. M. IV is a technical college and has formed a scientific club at the school based on new technologies.

4. De Winne has ARISS Contact with Ieper Students

Students from VTI Ieper in Ieper, West-Vlaanderen, Belgium spoke with Frank DeWinne, ON1DWN via an Amateur Radio on the International Space Station (ARISS) contact on Friday, October 23. Telebridge station VK4KHZ in Australia provided the connection. Twenty questions were asked and answered in front of a large audience including several reporters. The school recently built a replica of the plane, 'Mourane Parasol' which Guynemer (a French pilot) flew during World War I and incorporated the ARISS contact as a feature event in their celebration of 100 years of aviation.

5. Astronaut Jeff Williams has ARISS Contact with Arctic School

On Friday, October 23, students from Samuel Hearne Secondary School in Inuvik, Northwest Territories, Canada experienced an Amateur Radio on the International Space Station (ARISS) contact with Expedition 21 astronaut Jeffrey Williams, KD5TVQ. This was a telebridge contact via ground station W6SRJ in California. At the school's request, ARISS representatives visited the school and classrooms prior to the contact to talk about amateur radio and the ISS. Six hundred people attended

the event and watched as the students asked Williams 22 questions about life and work in space. CBC (Canadian Broadcasting Corporation) Radio and the local and area press covered the event. The school is located very near the Arctic Ocean which makes this the most northerly ARISS contact to date.

6. Canadian Bel Ayr Pathfinders Speak with Robert Thirsk via ARISS

An Amateur Radio on the International Space Station (ARISS) contact took place on Saturday, October 24 between Bel Ayr Pathfinders in Dartmouth, Nova Scotia, Canada and Robert Thirsk, VA3CSA on the ISS via telebridge station W6SRJ in California. Thirsk answered 17 questions posed to him by the students as an audience of 160 gathered for the event, including the media (CBC, CTV, a community television station, a radio station and a local newspaper). The Pathfinders that participated in the ARISS contact earned Galactic Adventures badges and will share this experience with other Girl Guides of all ages.

7. ARISSat-1 Meeting Held

The ARISSat-1 Team met in Phoenix, Arizona over the October 23 -25 weekend to assemble and test the integration of the various satellite components. The team has also been compiling voice messages to be included on ARISSat and has been preparing for the Safety Review meeting to be held on Thursday, October 29.

8. ARISS International Meeting Held

An Amateur Radio on the International Space Station (ARISS) Team meeting was held on Tuesday, October 20. Topics of discussions included a status on the Columbus module antennas and an ARISSat-1 update.
See: http://www.rac.ca/ariss/arisstel2009-10-20.htm

[ANS thanks Carol, KB3LKI, for the above information]

/EX

73,
This week's ANS Editor,
Dee Interdonato, NB2F
nb2f at amsat dot org

131. WSR-306 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-11-03 02:30:43 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000c01ca5c2d$a3683640$ea38a2c0$@net>
Source record: 530
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-306.S1
WSR 306 Part 1 11/02/2009

AMSAT NEWS SERVICE BULLETIN 306.S1
FROM AMSAT HQ SILVER SPRING, MD, November 02, 2009
TO ALL RADIO AMATEURS
BID: $WSR-306.S1

SO-67 SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning

Callsign: ZS0SUM

Uplink: 145.880MHz FM
Downlink: 435.350MHz FM
[10262009]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920Mhz FM
Downlink: 435.300Mhz FM
Downlink: 2401.200MHz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol

2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10262009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530

Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[10182009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-306.S2
WSR 306 Part 2 11/02/2009

AMSAT NEWS SERVICE BULLETIN 306.S2
FROM AMSAT HQ SILVER SPRING, MD, November 02, 2009
TO ALL RADIO AMATEURS
BID: $WSR-306.S2

SwissCube
Catalog Number: 35932?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[10042009]
=====
UWE-2

Catalog Number: 35935?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[10042009]
=====
ITUpsAT1
Catalog Number: 35934?
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[10042009]
=====
BEESAT
Catalog Number: 35933?
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[10042009]
=====
Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
=====
BEVO-1 (DRAGONSAT-1)

Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6
[07312009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====

KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375

Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920Mhz FM
Downlink: 435.300Mhz FM
Downlink: 2401.200MHz FM
FM Repeater TWO (QRP ONLY)
Uplink: OFF
Downlink: OFF
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10262009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.

[10042009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-306.S3
WSR 306 Part 3 11/02/2009

AMSAT NEWS SERVICE BULLETIN 306.S3
FROM AMSAT HQ SILVER SPRING, MD, November 02, 2009
TO ALL RADIO AMATEURS
BID: $WSR-306.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-306.S4
WSR 306 Part 4 11/02/2009

AMSAT NEWS SERVICE BULLETIN 306.S4
FROM AMSAT HQ SILVER SPRING, MD, November 02, 2009
TO ALL RADIO AMATEURS
BID: $WSR-306.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

132. Radio Meteor Obs. Bull. October 2009 Orionids

Newsgroup: rec.radio.amateur.space
Date: 2009-11-07 20:21:40 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <9klbf51hmc715sedosri0af2u51g1pasep@4ax.com>
Source record: 531
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 195 of October 2009 (91 K) is available now as

http://www.rmob.org/rmobtext/rmob0910.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

133. ANS-312 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-11-08 02:17:40 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001401ca6019$a5646730$f02d3590$@net>
Source record: 532
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-312

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* ARISS Prepares Amateur Radio Equipment for ISS
* AMSAT Board Votes to Add a Student Membership
* November AO-51 Schedule Includes V, U, L, SSTV
* SO-67 Testing Progress
* Dish Calculation Software Released by VK3UM
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-312.01
ARISS Prepares Amateur Radio Equipment for ISS

AMSAT News Service Bulletin 312.01
>From AMSAT HQ SILVER SPRING, MD.
November 8, 2009
To All RADIO AMATEURS
BID: $ANS-312.01

ARISSat-1 development work as well as the testing and delivery of the Amateur Radio antennas for the ISS Columbus module have been mentioned in prior week's news coverage. Now, as these projects prepare for space flight, is a good time for a summary report.

Columbus Module Antennas Ready for Flight

Rosalie White, K1STO reported on ARISS Columbus module antenna work via a feature story on the ARRL Web. She described Lou McFadin's W5DID, work on getting the antenna shipment from Europe cleared through customs and delivered to the Kennedy Space Center. Lou showed the astronauts the best ways for them to safely unpack and assemble the antennas and associated cables once they and the hardware reach the ISS. They reviewed how to maneuver and install the antennas during the second spacewalk of the STS-129 scheduled for Mid-November. These new antennas will increase opportunities for hams to make contacts with

astronauts and cosmonauts. Frequencies available for transmission to and from Columbus will be 2 meters, 70 centimeters, L-band and S-band. To start, the two Ericcson radios (2 meters and 70 centimeters) that are already on the ISS (but seldom used) will be moved and installed in Columbus. Lou McFadin reported that the antennas are now loaded in the Shuttle and waiting for the November launch. Lou also developed a cable that will allow the astronauts to power the Ericsson radio from a computer power brick and get a station up and operating quickly.

ARISSat-1 Development Team Meets in Phoenix

Many of the ARISSat team met in Phoenix over the weekend of Oct 23-25 to work on software integration, to assemble the spaceframe and to make final measurements for the new cables. The team put in long hours at the Microchip facility where a number of new milestones were met.

+ The satellite was commanded via a radio.
+ New PSU (power supply unit) board was tested in the system.
+ New ICU (Interconnect board) was tested in the system.
+ New MPPT (Max Power Point Tracker) boards were tested with solar panels.
+ New solar panel test structure was built and used to test the power system.
+ The new 1k BPSK error correcting data was transmitted and received.
+ New telemetry data was transmitted.
+ Received data from the Russian experiment simulator and transmitted it.
+ Basic spaceframe was constructed.
+ The US made Ag-Zn battery was assembled and activated and will be available for testing.

The team is working hard to get the satellite completely operational by early Dec 2009, when in-depth system testing will begin. A NASA Safety Briefing for ARISSat-1 was held on Thursday 22 Oct 2009. The team was well prepared and only have a few items to provide additional descriptions for at the next safety review in December 2009.

The ARISSat-1 team also invites students from around the world to submit papers or other visual items that will be flown on the satellite. Submissions should be in jpg or pdf format such as a paper or a study done on science, technology, engineering, or math. Items such as a drawing of space craft, schematic, journal kept on an educational topic, a story, photo or news article about a class doing a hands on educational project are acceptable. The deadline for submission is on Sunday, November 15, 2009. Send your files via e-mail to Dave, AA4KN (aa4kn at amsat.org) with a Cc: to Gaston, ON4WF, gaston (dot) bertels (at) skynet (dot) be.

[ANS thanks ARISS and the ARRL for the above information]

/EX

SB SAT @ AMSAT $ANS-312.02
AMSAT Board Votes to Add a Student Membership

AMSAT News Service Bulletin 312.02
>From AMSAT HQ SILVER SPRING, MD.
November 8, 2009
To All RADIO AMATEURS
BID: $ANS-312.02

During the November 3, 2009 Board meeting the motion to add a student membership category was unanimously approved. The student membership will be one half of the current membership. Until we update the web site and membership forms, please contact Martha at the AMSAT office to join at the student rate.

The approved motion reads:

"In order to expand its educational outreach efforts, AMSAT-NA establishes a student category of membership. The yearly rate will be half the standard applicable rate, and shall be available to all students in primary and secondary school. Post-secondary school students enrolled in at least half time status shall be eligible for a maximum of 6 post-secondary years in this status. In addition, the student membership application should indicate:
1) school attending.
2) course of study.
3) expected graduation date."

[ANS thanks the AMSAT Board of Directors for the above information]

/EX

SB SAT @ AMSAT $ANS-312.03
November AO-51 Schedule Includes V, U, L, SSTV

AMSAT News Service Bulletin 312.03
>From AMSAT HQ SILVER SPRING, MD.
November 8, 2009
To All RADIO AMATEURS
BID: $ANS-312.03

The AO-51 Control Team has posted the satellite schedule for the month of November and the first week of December:

November 6 - November 12

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 9k6 FM

November 13 - November 15

ZS1LS requested a weekend of the QRP repeater for the AMSAT-SA
group to use. QRP gets such little use here, and we had a request
for SSTV, so we are going for dual use this weekend.

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

FM repeater, V/U SSTV and AMSAT-SA Event
Uplink: 145.880 MHz FM
Downlink: 435.150 MHz FM

November 16 - November 19

38k4 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 38k4 FM

November 20 - November 25

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 9k6 FM

November 26 - November 29

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

FM repeater, L/U
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

November 30 - December 6

For the reversal, the Control Team is going to use the chargeable
magnet to reverse the orientation of AO-51 so the downlink antennas
and the L/S antenna will favor the southern hemisphere.

We have not done this before. We'll need as many quantitative obser-
vations before and after the flip as possible, especially from the
Southern Hemisphere. Tentative plans are to flip it on a Tuesday or
Wednesday after collecting some 5 second telemetry WOD files as a
baseline.

FM Repeater, V/U
Uplink: 145.920 MHz FM

Downlink: 435.300 MHz FM

9k6 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 9k6 FM

The latest AO-51 Control Team news can be found on-line at:
http://www.amsat.org/amsat-new/echo/CTNews.php

[ANS thanks Mark N8MH, Drew KO4MA and the AO-51 Control Team for
the above information]

/EX

SB SAT @ AMSAT $ANS-312.04
SO-67 Testing Progress

AMSAT News Service Bulletin 312.04
>From AMSAT HQ SILVER SPRING, MD.
November 8, 2009
To All RADIO AMATEURS
BID: $ANS-312.04

South African amateur radio operators testing on the Sumbandila
SO-67 satellite have reported receiving very strong downlink
signals. Occasionally the satellite beacon was not copied but
the parrot repeater and transponder were operational. The SO-67
operations team posted these hints for operation:

The CTCSS tone for the transponder is 233.6 Hz.

Uplink: 145.875MHz
Downlink: 435.345MHz

Additional recommendations:
Use only narrow FM
Switch off compression
Speak softly (mic gain down)

Satellite characteristics:
All antennas are linear vertically polarized (1/4 wavelength)
Sat Tx power = 5W
Sat Rx sensitivity = -116.5dBm for 12dB SINAD
Max antenna gain = 4dBi

Video taken by Sumbandila satellite at 500km received over S-band at
the ground station in Stellenbosch, South Africa can be seen at:
http://tinyurl.com/yg4mymz

[ANS thanks SA-AMSAT for the above information]

/EX

SB SAT @ AMSAT $ANS-312.05
Dish Calculation Software Released by VK3UM

AMSAT News Service Bulletin 312.05
>From AMSAT HQ SILVER SPRING, MD.
November 8, 2009
To All RADIO AMATEURS
BID: $ANS-312.05

Although principally designed for the EME community VK3UM's
EMECalc Ver. 7.00 software also contains tools that satellite
dish users may find useful.

Doug, VK3UM says his software provides the capability to select
various feed types (derived from Paul W1GHZ simulations), and match
it your own dish f/d. This allows prediction of spill over and then
simplies the correct selection of a feed to match your dish. This
match provides several dB of performance improvement.

The software in a zip format may be obtained from
http://sm2cew.com/download.htm
http://www.ve1alq.com/vk3um/
http://www.vk3bez.org/vk3um_software.htm (available shortly)

[ANS thanks Doug, VK3UM for the above information]

/EX

SB SAT @ AMSAT $ANS-312.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 312.06
>From AMSAT HQ SILVER SPRING, MD.
November 8, 2009
To All RADIO AMATEURS
BID: $ANS-312.06

+ Watch for possible AO-51 operation from the 2009 DXpedition to
Miquelon with Eric, KV1J and Tom, W8TOM operating as FP/homecall
between November 7-15. Miquelon Island is also desginated NA-032,
the grid square is GN17TC. QSL via home calls, direct or bureau.
Further information at: http://www.kv1j.com/fp/october09.html

+ Trevor, M5AKA says there are 3 KiwiSAT videos on YouTube:
View them via the SouthGate site at: http://tinyurl.com/ylepffp

+ SwissCube has an application that allows amateur stations in
range of the spacecraft to listen and forward the BPSK downlink
data to the SwissCube team. Details are at:
http://swisscube-live.ch/RadioAmateurs/DownlinkForwarder
Note - you need to register to use this application.

+ Pedro, LU7ABF reported AMSAT-Argentina's satellite predictor page
can be found at http://amsat.org.ar/?f=d After setting your grid
locator you get next passes in local time at your location.

+ Doug, KA8QCU reminds hams going to the Ft. Wayne, Ind. Hamfest,
Nov. 14-15 that there will be an AMSAT Forum on Sat. the 14th at

1:15pm. More info at: http://www.fortwaynehamfest.com

+ Jim, N8OQ is collecting AO-7 telemetry from the anomalous 435.1 MHz RTTY telemetry event during February and March 2009. Good quality telemetry is defined as being collected continuosly for at least 4 minutes during a pass. Jim is also interested in any archives of AO-7 telemetry the "early days" before 1981 if any exists. Contact Jim via e-mail at: deyoung_james (at) yahoo.com

+ Satellite hams following the news about Neil's W6FOG sailing trip will be pleased to hear he has recovered and plans to be back out to sea soon. As of November 2 Neil had survived very bad weather and high seas along with hypothermia. The sea was so heavy his tow line to the Coast Guard cutter broke three times during the rescue. When he heads out this weekend his plans are to travel along the west coast to the Panama Canal and to the Caribbean.

+ November 5 was OSCAR College Station Satellite Night. Please forward reports and comments/observations to Dr. Jay Garlitz, AA4FL at the University of Florida via jgarlitz@ufl.edu.

+ Jeff, WB3JFS is compiling a list of "most wanted grids". Send your list via e-mail by November 14 to <callsign>@amsat.org. Please do not send any "water grids" since any operation from them is sporadic and most cases, impractical to activate for most of us.

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And, with that ponder the question why don't skeletons cross the road? Its probably because they don't have the guts.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

134. td

Newsgroup: rec.radio.amateur.space
Date: 2009-11-11 11:56:39 UTC
From: Carlão <ca8065@gmail.com>
Message-ID: <2fe6460c-f68f-4ecc-a08d-d763f4f15bb0@r24g2000yqd.googlegroups.com>
Source record: 533

```
receber mensagem
```

135. WSR-315 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-11-11 13:11:25 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901ca62d0$75eaeb50$61c0c1f0$@net>
Source record: 534
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-315.S1
WSR 315 Part 1 11/11/2009

AMSAT NEWS SERVICE BULLETIN 315.S1
FROM AMSAT HQ SILVER SPRING, MD, November 11, 2009
TO ALL RADIO AMATEURS
BID: $WSR-315.S1

SO-67 SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning

Callsign: ZS0SUM

Uplink: 145.880MHz FM
Downlink: 435.350MHz FM
[10262009]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920MHz FM
Downlink: 435.300Mhz FM
FM Repeater TWO
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25

Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11112009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530

Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[10182009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-315.S2
WSR 315 Part 2 11/11/2009

AMSAT NEWS SERVICE BULLETIN 315.S2
FROM AMSAT HQ SILVER SPRING, MD, November 11, 2009
TO ALL RADIO AMATEURS
BID: $WSR-315.S2

SwissCube
Catalog Number: 35932
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[11112009]
=====
UWE-2

Catalog Number: 35934
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[1112009]
=====
ITUpsAT1
Catalog Number: 35935
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[11112009]
=====
BEESAT
Catalog Number: 35933
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[11112009]
=====
Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
=====
BEVO-1 (DRAGONSAT-1)

Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6 FHSS
[11112009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====

KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375

Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920MHz FM
Downlink: 435.300Mhz FM
FM Repeater TWO
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10262009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.

[10042009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-315.S3
WSR 315 Part 3 11/11/2009

AMSAT NEWS SERVICE BULLETIN 315.S3
FROM AMSAT HQ SILVER SPRING, MD, November 11, 2009
TO ALL RADIO AMATEURS
BID: $WSR-315.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS

Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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/EX

SB SAT @ AMSAT W8ISS $WSR-315.S4
WSR 315 Part 4 11/11/2009

AMSAT NEWS SERVICE BULLETIN 315.S4
FROM AMSAT HQ SILVER SPRING, MD, November 11, 2009
TO ALL RADIO AMATEURS
BID: $WSR-315.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)

* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

136. ANS-319 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-11-15 15:29:24 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000e01ca6608$6f350e40$4d9f2ac0$@net>
Source record: 535
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-319

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT NextGen Progress
* AO-51 38k4 BPS Operations 16-19 November
* AO-7 has 35th Birthday on 15 November
* SatPC32 V.12.8a Upgrade Available for Download
* High Altitude Balloon Project Seeks Student Applications
* ARISS Status - 09 November 2009

SB SAT @ AMSAT $ANS-319.01
AMSAT NextGen Progress

AMSAT News Service Bulletin 319.01
From AMSAT HQ SILVER SPRING, MD.
November 15, 2009
To All RADIO AMATEURS
BID: $ANS-319.01

Just to give everyone a little update on how the AMSAT NextGen Program is doing @ Binghamton University . . .

(a) CONTROL & EXPERIMENT SYSTEMS
- The Systems Engineering students are doing well analyzing the ARISSat documentation and will be scheduling meetings with the primary AMSAT engineering contact to discuss documentation questions.

- Identified Design Changes Needing to Occur for NextGen:
* The Control/Safety Timer needs to be adapted to conform with the CubeSat deployment switch standard
* Consolidation of Camera functionality into a separate camera payload board (functionality is currently spread across a number of boards in the stack)

(b) RF SYSTEMS
- The Systems Engineering students are doing well analyzing the ARISSat documentation and will be scheduling meetings with the primary AMSAT engineering contact to discuss documentation questions.

- Identified Design Changes Needing to Occur for NextGen:
* Antenna design choice - single dual-band vs dual mono-band
* New RF container design needed

(c) POWER & STRUCTURE SYSTEMS
- The Systems Engineering students are doing well analyzing the ARISSat documentation and will be scheduling meetings with the primary AMSAT engineering contact to discuss documentation questions.
- The Hardware Engineering students have been busy creating a preliminary design for solar panel deployment and use of super-capacitors to replace the battery. A Preliminary Design Review is being scheduled in mid-November with the AMSAT Engineering Team.

- Identified Design Changes Needing to Occur for NextGen:
* Replace Battery with modular stacks of Supercapacitors in parallel to the Solar Panels
* Shrink ICB (Interconnect Board) to fit within CubeSat frame
* Reduce PSU footprint by moving camera power function to a Camera Payload Board (CPB)
* Slight PSU voltage supply design change
* Remove test/program load functionality from ICB to external test board (XTB) via standard CubeSat & PPOD maintenance ports (per CubeSat spec.)

We are still on-target to have an engineering model ready for the AMSAT table at the 2010 Dayton Hamvention with readiness for launch later in 2010.

[ANS thanks Alex, N3NP, for the above information]

/EX

SB SAT @ AMSAT $ANS-319.02
AO-51 38k4 bps Operations 16-19 November

AMSAT News Service Bulletin 319.02
From AMSAT HQ SILVER SPRING, MD.
November 15, 2009
To All RADIO AMATEURS
BID: $ANS-319.02

Okay 38k4 packet operators, get ready to start your engines!!

AO-51 is scheduled for a four day period of high speed packet operations at 38k4 bps. It's been about 2 years since the satellite was configured in this mode. The satellite will be in high power mode (only TXA 435.150 transmitter ON) during this period.

The posted schedule is as follows:

November 16 - November 19

38k4 BBS, L/U
Uplink: 1268.700 MHz 9k6 FM
Downlink: 435.150 MHz 38k4 FM

Usually this means the mode will run from around 22:00-23:00UTC
November 15 (Sunday evening Eastern US) until around 22:00-23:00UTC
November 19 (Thursday evening Eastern US).

Users of the PacketBBS are encouraged to send me feedback/reports on
your experiences during this period.

Please note that 38k4 packet operations require a receiver with
sufficient bandwidth and that your normal 9600 radio receive
connection will not work. Users also need a TNC that is capable of
running packet at 38k4. A special "wide" filter like the ones
available through Symek (www.symek.com) need to be installed in the
radio to "tap" a wide band signal. A few commercially available
TNCs, like the KPC-9612+ and the Paccomm Spirit-2 (with satellite
option) can be used.

You can use a PCR-1000 or PCR-1500/2500 as a wide band receiver,
without modification. Use the packet jack and set the receiver
to FM (not FM-W) with a 50 kHz filter width. If you have one of
these receivers, but not the right TNC, you might try Doug
Qualigiana's KA2UPW sound card software here:
http://www.quagliana.com/willow/ It will decode at 9600 and 38k4.
There was an article about his software in the AMSAT Journal just
a few months ago.

Hope to see you active on AO-51 at 38k4!

[ANS thanks Mark, N8MH, for the above information]

/EX

SB SAT @ AMSAT $ANS-319.03
AO-7 has 35th Birthday on 15 November

AMSAT News Service Bulletin 319.03
From AMSAT HQ SILVER SPRING, MD.
November 15, 2009
To All RADIO AMATEURS
BID: $ANS-319.03

Thirty-five years ago this Sunday (15 November), AO-7 reached orbit.
The following is from the AO-7 page on the AMSAT-NA Web site:

"AMSAT-OSCAR 7 was launched November 15, 1974 by a Delta 2310
launcher from Vandenberg Air Force Base, Lompoc, California. AO-7 was
launched piggyback with ITOS-G (NOAA 4) and the Spanish INTASAT. The
second phase 2 satellite (Phase II-B). Weight 28.6 kg. Orbit 1444 x
1459 km. Inclination 101.7 degrees. Octahedrally shaped 360 mm high
and 424 mm in diameter. Circularly polarized canted turnstile VHF/UHF

antenna system and HF dipole."

If you're not set up for the linear satellites but have a receiver with CW/SSB capability on 2 meters, try listening to a pass. The middle of her Mode B downlink passband is 145.950 mHz, and you will find most of the activity occurring between 145.940 mHz and 145.960 mHz. Generally, you'll hear CW operators below 145..950 and SSB operators above 145.950.

Here is a link to the online log for AO-7:
http://www.planetemily.com/ao7/ao7log.php

[ANS thanks Tim, N3TL, for the above information]

/EX

SB SAT @ AMSAT $ANS-319.04
SatPC32 V.12.8a Upgrade Available for Download

AMSAT News Service Bulletin 319.04
From AMSAT HQ SILVER SPRING, MD.
November 15, 2009
To All RADIO AMATEURS
BID: $ANS-319.04

Erich, DK1TB has uploaded an upgrade of SatPC32 (V. 12.8a) on his website http://www.dk1tb.de.

The V.12.8a update includes the following:

1. The main program SatPC32 can now manage up to 4 different configurations. Configuration #1, for example, could steer a single satellite transceiver to work the normal V/U and U/V satellites. Configuration #2, for example, could steer a separate radio (FT-817, IC-706MKIIG) as RX and the satellite transceiver as TX. This configuration is useful for AO-51, mode V/S. Most users will receive S-band with a 13cm/2m down converter and a 2m RX. Configuration #1 would not work because the satellite transceiver cannot simultaneously receive and transmit on the same band (2m).

The Keplerian data only needs to be updated with one configuration. The new data will be used by the all configurations.

The configurations can be switched via mouse click in menu 'Setup', 'Configurations'.

2. In 'Real Time' mode the program updates it's calculations once per second. With previous versions the update interval could not be changed. Now the speed can be increased by 5 and 10 fold (menu 'CAT'). On the higher bands the Doppler shift can change by 50 Hertz per second and more. That will cause scale effects on the received signal. Due to the narrow filters CW signals even can be lost. Increasing the update speed can prevent these effects.

3. In menu 'CAT' a bottom line has been added. It displays the complete data line from file Doppler.SQF. So, the optional comments at the end of a data line can also be seen. That is particularly helpful with satellites that provide multiple modes (i.e. AO-51 and ISS) and therefore require multiple data lines in Doppler.SQF.

4. CAT steering of the Icom radios IC-706MKIIG, IC-7000 and IC-910H has been simplified. With previous program versions the IC-706MKIIG and IC-7000 required an extra line between the radio's ACC jacket and the PC's COM port to inhibit frequency changes while the radio is transmitting (because that would cause frequency errors). The IC-910H required the line with SatPC32ISS. This line is no longer necessary.

5. The programs now works flawlessly on 64-bit Windows systems, except rotor steering with the interfaces FODTrack, KCT, IF-100 and RifPC. The kernel driver that is used to output data to these interfaces is a 32-bit version. A 64-bit version is not available yet. The KCT and RifPC could not be used anyhow with 64-bit systems because they require an ISA slot which is no longer supported by newer PCs.

The program also works flawlessly under Windows 7. It supports the 96-dpi (100%) and the 120-dpi 125%) fonts. It does not work properly with the new 144-dpi (150%) fonts. Program versions 12.8 and older work only with the 96-dpi fonts.

6. The CD and the Internet Setup File now include the tool DataBackup.Exe. Via a single mouse click, the program can generate a backup copy or restore the entire SatPC32 data folder (all personal settings). That is particularly helpful when the program is upgraded.

7. Some bugs have been fixed (concerning, i.e., downlink correction and transverter operation).

THANK YOU to Erich Eichmann DK1TB for creating and continuously enhancing SatPC32 for the global amateur satellite community. And for donating it to AMSAT-DL, AMSAT-NA, and AMSAT-UK. SatPC32 is surely the most lucrative fund raising item for these AMSAT groups.

Please support these AMSAT groups by registering your copy of SatPC32.

[ANS thanks Erich, DK1TB, for the above information]

/EX

SB SAT @ AMSAT $ANS-319.05
High Altitude Balloon Project Seeks Student Applications

AMSAT News Service Bulletin 319.05
From AMSAT HQ SILVER SPRING, MD.
November 15, 2009
To All RADIO AMATEURS
BID: $ANS-319.05

The SpaceDaily Express newsletter carried the announcement that NASA is accepting applications from students at U.S. colleges and univers-

ities who want to send their experiments to the edge of space on a high-flying scientific balloon.

The annual NASA project provides near space access for 12 undergraduate and graduate student experiments to be carried by a NASA high-altitude research balloon. The flights typically last 15 to 20 hours and reach an altitude of 23 miles. Experiments may include compact satellites or prototypes.

The experiments are flown aboard the High Altitude Student Platform, or HASP, a balloon-born instrument stack launched from the Columbia Scientific Balloon Facility's remote site in Fort Sumner, N.M.

The goals of the project are to provide a space test platform to encourage student research and stimulate the development of student satellite payloads and other space-engineering products.

HASP seeks to enhance the technical skills and research abilities of students in critical science, technology, engineering and mathematics disciplines. The project is a joint effort between NASA and the Louisiana Space Grant Consortium.

NASA's HASP houses and provides power, mechanical support and communications for test articles and instruments. It can support approximately 200 pounds of student payloads. Since 2006, the HASP program has selected 44 payloads for flight, the work of more than 200 students from across the United States.

The deadline for applications is Dec. 18. NASA is targeting fall 2010 for the next flight opportunity. NASA expects to make selections in January 2010.

Information is available on-line at:
http://laspace.lsu.edu/hasp/Participantinfo.html

[ANS thanks SpaceDaily Express and the Louisiana Space Grant Consortium for the above information]

/EX

SB SAT @ AMSAT $ANS-319.06
ARISS Status - 09 November 2009

AMSAT News Service Bulletin 319.06
From AMSAT HQ SILVER SPRING, MD.
November 15, 2009
To All RADIO AMATEURS
BID: $ANS-319.06

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been approved for Institut Don Bosco in Bruxelles, Belgium. The contact will take place on Monday, November 16 at 09:41 UTC via

telebridge station WH6PN in Hawaii. Don Bosco is a secondary industrial technical school with an enrollment of approximately 750 students and offers courses in carpentry, electricity, mechanics, computing, printing and electronics.

Flanders District of Creativity and the Department of Education of the Flemish Government have teamed up for an Amateur Radio on the International Space Station (ARISS) contact on Tuesday, November 17 at 13:44 UTC via station LU8YY in Argentina. The groups have partnered to organize the very first congress for kids in Belgium. A conference is being set up with keynote speakers and interactive workshops for 1200 twelve year olds. Dirk Frimout & Sijtn Meuris will give a presentation about astronomy.

2. Westbrook Intermediate Experiences ARISS Contact

On Tuesday, November 3, an Amateur Radio on the International Space Station (ARISS) contact was held with Westbrook Intermediate School in Friendswood, Texas via telebridge station LU8YY in Argentina. Eleven students were able to ask Robert Thirsk, VA3CSA 11 questions before losing the connection with the ISS. Thirsk's son offered his father a surprise with the third question using his newly acquired ham radio license, KF5DRU.

3. Successful ARISS Contact John Taylor Collegiate

On Wednesday, November 4, an Amateur Radio on the International Space Station (ARISS) contact took place between John Taylor Collegiate in Winnipeg, Manitoba, Canada and Robert Thirsk, VA3CSA on the ISS. Telebridge station WH6PN in Hawaii provided the link. Fifteen people gathered for the event and observed the students as they asked 13 questions of the astronaut. Media coverage was provided by the Winnipeg Free Press.

4. Embry-Riddle Aeronautical University Speaks with Stott Through ARISS

Students at Embry-Riddle Aeronautical University (ERAU) in Daytona Beach, Florida experienced an Amateur Radio on the International Space Station (ARISS) contact on Thursday, November 5. The connection was made through the telebridge station VK4KHZ in Australia. Approximately seventy students and educators were present for the event and eighteen questions were asked and answered. This was a school crew pick of Nicole Stott, KE5GJN, an alumna of ERAU. The ERAU Web site boasts a news release as well as a photo of Stott on the ISS holding an Embry-Riddle banner.

5. ARISS Contact with Tokaisonritsu Muramatsu Elementary School

Tokaisonritsu Muramatsu Elementary School in Tokai Village, Ibaraki, Japan participated in an Amateur Radio on the International Space Station (ARISS) contact on Friday, November 6. Eight students posed two questions each to Nicole Stott, KE5GJN on the ISS as an audience of 110 students and parents watched. Media coverage was provided by

three newspapers, one magazine and other outlets.

6. Astronaut Training Status

A basic operations session on the ARISS (Amateur Radio on the International Space Station) program was held with astronaut Mike Fossum, KF5AQG on Monday, November 2. Fossum is scheduled to fly with Expedition 28 in May 2011.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

137. WSR-325 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-11-22 02:16:11 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001501ca6b19$d55bd440$80137cc0$@net>
Source record: 536
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-325.S1
WSR 325 Part 1 11/21/2009

AMSAT NEWS SERVICE BULLETIN 325.S1
FROM AMSAT HQ SILVER SPRING, MD, November 21, 2009
TO ALL RADIO AMATEURS
BID: $WSR-325.S1

SO-67 SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning

Callsign: ZS0SUM

Uplink: 145.875MHz FM tone 233.6 Hz
Downlink: 435.345MHz FM

For more information about SO-67:
http://www.amsatsa.org.za/
[11212009]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
```

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920MHz FM
Downlink: 435.300Mhz FM
FM Repeater TWO
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB

145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11112009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]

=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

STS-129 Crew:
Commander: Charlie Hobaugh
Pilot: Barry Wilmore
Mission Specialist: Bobby Satcher
Mission Specialist: Mike Foreman
Mission Specialist: Randy Bresnik

Mission Specialist: Leland Melvin

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[11212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-325.S2
WSR 325 Part 2 11/21/2009

AMSAT NEWS SERVICE BULLETIN 325.S2
FROM AMSAT HQ SILVER SPRING, MD, November 21, 2009
TO ALL RADIO AMATEURS
BID: $WSR-325.S2

SwissCube
Catalog Number: 35932
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[11112009]
=====
UWE-2
Catalog Number: 35934
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[1112009]
=====
ITUpsAT1
Catalog Number: 35935
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[11112009]
=====
BEESAT
Catalog Number: 35933
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[11112009]
=====
Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
=====

Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
=====
BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6 FHSS
[11112009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920MHz FM
Downlink: 435.300Mhz FM
FM Repeater TWO
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10262009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====

GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[04272009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK

145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php

[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 21 Crew:
Commander: Frank De Winne ON1DWN
Flight Engineer: Robert Thirsk VA3CSA
Flight Engineer: Roman Romanenko
Flight Engineer: Nicole P. Stott KE5GJN
Flight Engineer: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

STS-129 Crew:
Commander: Charlie Hobaugh
Pilot: Barry Wilmore
Mission Specialist: Bobby Satcher
Mission Specialist: Mike Foreman
Mission Specialist: Randy Bresnik
Mission Specialist: Leland Melvin

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[11212009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-325.S3
WSR 325 Part 3 11/21/2009

AMSAT NEWS SERVICE BULLETIN 325.S3
FROM AMSAT HQ SILVER SPRING, MD, November 21, 2009
TO ALL RADIO AMATEURS
BID: $WSR-325.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]

=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====

AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
AO-24 ARSENE
Catalog Number: 22654
Launch Date: May 13, 1993

Status: Non-operational

Uplink: ?
Downlink: 145.975 MHz 1k2bps FM AFSK
2446.540 MHz

Broadcast callsign:
BBS:
[11212009]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12

[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]

=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-325.S4
WSR 325 Part 4 11/21/2009

AMSAT NEWS SERVICE BULLETIN 325.S4
FROM AMSAT HQ SILVER SPRING, MD, November 21, 2009
TO ALL RADIO AMATEURS
BID: $WSR-325.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

138. sumbandila SO67

Newsgroup: rec.radio.amateur.space
Date: 2009-11-22 08:26:29 UTC
From: Adrian Szumilas <szumiksp8aqk@poczta.onet.pl>
Message-ID: <heasjm$qv3$1@news.onet.pl>
Source record: 537

Hello friends
Sumbandila SO67 it works? Please information for me. I listen and not copy
frequency 435.350
73!
ADRIAN SP8AQK

139. Re: sumbandila SO67

Newsgroup: rec.radio.amateur.space
Date: 2009-11-22 12:50:37 UTC
From: Alan WA4SCA <WA4SCA@YAHOO.COM>
Message-ID: <9mcig59bu1itolvo09q79k6k5j3bf4itvl@4ax.com>
Source record: 538

Adrian,

SO-67 works, but only on a schedule. So far, it is only available on weekends.

http://www.amsatsa.org.za/index.htm

See the notes for operation. The downlink is 435.345 MHZ.

--
Alan
WA4SCA

140. Re: sumbandila SO67

Newsgroup: rec.radio.amateur.space
Date: 2009-11-22 17:22:22 UTC
From: Adrian Szumilas <szumiksp8aqk@poczta.onet.pl>
Message-ID: <hebs0gfbr1@news.onet.pl>
Source record: 539

Thank you Alan for info.
Adrian SP8AQK

> Adrian,
>
> SO-67 works, but only on a schedule. So far, it is only available on
> weekends.
>
> http://www.amsatsa.org.za/index.htm
>
> See the notes for operation. The downlink is 435.345 MHZ.
>
>
> --
> Alan
> WA4SCA

141. ANS-326 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-11-23 18:59:33 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000501ca6c6f$2f9df090$8ed9d1b0$@net>
Source record: 540
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-326

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* New Ham Antenna Installed
* DQ11APOLLO Activation on All Bands
* Next Hudson Valley Satcom Net
* Satellite Shorts
* ARISS Status - 16 November 2009

SB SAT @ AMSAT $ANS-326.01
New Ham Antenna Installed

AMSAT News Service Bulletin 326.01
From AMSAT HQ SILVER SPRING, MD.
November 22, 2009
To All RADIO AMATEURS
BID: $ANS-326.01

New Ham Antenna Installed on the ISS Columbus Module

ARISS US Hardware Manager Lou McFadin, W5DID says that all the teamwork and effort to expand the ARISS amateur radio station aboard the ISS were successful this weekend when the new dual band 2m/70CM antenna was installed on the outside of ESA's Columbus module.

Lou congratulated the team, "This is an example of what can be achieved by volunteer hams working closely with a space agency. This antenna project was funded entirely by AMSAT-NA and volunteers who built the antennas for both an ESA experiment and for ARISS. I am very proud of all the teamwork and effort that has gone into this project."

The new ARISS antenna is very similar to the antennas already on the Russian service module. Now that the antennas are in place the

ARISS team will be working to bring amateur radio to the Columbus module.

In conclusion Lou noted the tremendous contribution from ESA for the experiment, the launch and the EVA making this expansion of amateur radio aboard the ISS possible.

[ANS thanks Lou McFadin, W5DID for the above the information]

/EX

SB SAT @ AMSAT $ANS-326.02
DQ11APOLLO Activation on All Bands

AMSAT News Service Bulletin 326.02
From AMSAT HQ SILVER SPRING, MD.
November 22, 2009
To All RADIO AMATEURS
BID: $ANS-326.02

DQ11APOLLO Activation on All Bands

DQ11APOLLO is a special-event station of the Deutsche Amateuer-Radio-Club (DARC) celebrating the 40th. anniversary of the first manned landing on the moon by NASA.

July 20, 2009 marked the 40th annnivesary of the first manned landing on the moon by the Apollo-11 mission. To celebrate this brilliant technical achievement of NASA, a group of space-flight enthusiast radio amateurs of the Deutsche Amateur-Radio-Club applied for the special-event callsign DQ11APOLLO. It was issued on July 15, 2009 and is valid 365 days. The station will be activated on the mission-dates of the past Apollo flights on all HF, VHF & UHF-bands using SSB, CW, FM and PSK.

The call will be activated during several occasions in 2009 and 2010:

Apollo 12 November 14-24, 2009
Apollo 17 December 07-19, 2009
Apollo 8 December 21-27, 2009
Apollo 14 January 31-Feb 9, 2010
Apollo 9 March 03-13, 2010
Apollo 13 April 11-17, 2010
Apollo 16 April 16-27, 2010
Apollo 10 May 18-26, 2010.

Buereau-cards via DF3JO, c/o Deutscher Amateur-Radio Club-DARC, Germany
Direct-cards via DF3JO, Thomas Stinder, Braukkamp 11, 48249 Dï¿½lmen, Germany

Preference will be given to cards sent direct with return postage and will be answered directly. The alternative is to send cards via Bureau. The QSL cards DQ11APOLLO will be printed in late autumn with the first delivery expected in December 2009.

Many details are available at the DQ11APOLLO web page:
http://tinyurl.com/ylenq3k

[ANS thanks the SouthGate ARC Site and DQ11APOLLO for the above Information]

/EX

SB SAT @ AMSAT $ANS-326.03
Next Hudson Valley Satcom Net

AMSAT News Service Bulletin 326.03
From AMSAT HQ SILVER SPRING, MD.
November 22, 2009
To All RADIO AMATEURS
BID: $ANS-326.03

The next "HV Satcom" net is Thursday December 10 at 8PM (EST) (0100UTC) on the 146.97MHz repeater. Echolink node of N2EYH-L will also relay the net. For more info (and download pass predictions go to: http://www.hvsatcom.org/

The reason there was no Satcom net (Thursday of this week) was that the "97" Repeater went down! Also, there won't be a "HV Satcom" net on Nov. 26 (Thanksgiving evening).

Ballinger (WA2BSS)

[ANS thanks Stuart, WA2BSS, for the above information]

/EX

SB SAT @ AMSAT $ANS-326.04
Satellite Shorts

AMSAT News Service Bulletin 326.04
From AMSAT HQ SILVER SPRING, MD.
November 22, 2009
To All RADIO AMATEURS
BID: $ANS-326.04

CUTE=1.7 Satellite Captures Image

Mineo Wakita, JE9PEL reported the CO-65 control station received an image below from the CUTE-1.7 satellite camera. Their analysis indicates the image was taken on October 28, 2009 and downloaded this week. The image is from the region around 84.6392 degrees north latitude and was 128.3049 degrees longitude near the north pole.

The CUTE-1.7 image can be viewed on-line at:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/1_48_caption.Jpeg

---

Antartica Planned for Activation on HamSats

Bill, K7MT, is going to work at the McMurdo base (AN-011) between Nov 15 and Feb 20, 2010. He will sign KC4USV mostly on 20m during Sundays. Listen for him in SSB on 14243 kHz, in CW on 14043 kHz or in PSK-31 on 14070 kHz. He plans to bring his Arrow II antenna and a Kenwood TH-7 which he can use also on amateur radio satellites. QSL via K1IED. His homepage can be found at: http://www.mt.net/~k7mt

---

Indonesia to Launch Rescue Radio HamSat

The Bernama dot com on line newspaper reports that the Indonesian Amateur Radio Organization called Orari and the Indonesian National Institute of Aeronautic and Space plan to launch the ham radio bird next year. But so far the president of the Orari has not revealed the satellite's size nor its orbital distance from Earth.

According to the website, the new ham radio bird will be used to expand the nations ham radio communication network to remote districts. It went on to note that the satellite will play a major role in linking land, sea and air communication for rescue radio operations.

The article also noted that ham radio operators from Orari had become the alternative communication tool. This, during disasters like the tsunami in Aceh and the recent earthquake in Padang.

Amateur Radio Newsline Report 1683

Call for Papers 14th Annual Southeastern VHF Society Conference
April 23rd and 24th, 2010 Morehead State University in Morehead, Kentucky.

The Southeastern VHF Society is calling for the submission of papers and presentations for the upcoming 14th Annual Southeastern VHF Society Conference to be held at Morehead State University in Morehead, KY on April 23rd and 24th, 2010. Papers and presentations are solicited on both the technical and operational aspects of VHF, UHF and Microwave weak signal amateur radio.

The deadline for the submission of papers and presentations is February 5,
2010. All submissions for the proceedings should be in Microsoft Word (.doc). Submissions for presentation at the conference should be in PowerPoint (.ppt) format, and delivered on either a USB memory stick or CDROM or posted for download on a web site of your choice.

For further information about the conference
please go to http://www.svhfs.org

Thank you,
Robin Midgett K4IDC
2010 Program Chair, SVHFS

[ANS thanks SVHFS for the above information]

/EX

SB SAT @ AMSAT $ANS-326.05
ARISS Status 16 November 2009

AMSAT News Service Bulletin 326.05
From AMSAT HQ SILVER SPRING, MD.
November 22, 2009
To All RADIO AMATEURS
BID: $ANS-326.05

(ARISS) Status Report November 16, 2009

1. Upcoming School Contact

Flanders District of Creativity and the Department of Education of the Flemish Government have teamed up for an Amateur Radio on the International Space Station (ARISS) contact on Tuesday, November 17 at 13:44 UTC via station LU8YY in Argentina. The groups are partnering to organize the very first congress for kids in Belgium. A conference has been set up with keynote speakers and interactive workshops for 1200 twelve year olds. Dirk Frimout and Sijtn Meuris will give a presentation about astronomy.

2. Italian Students Contact De Winne via ARISS

On Friday, November 13, Frank De Winne, ON1DWN on the ISS spoke with youth from Scuola Istituto Salesiano "Sacro Cuore" Vomero in Napoli, Italy via an Amateur Radio on the International Space Station (ARISS) contact. De Winne answered twenty questions put to him by the students. Approximately six hundred children were present for the contact which highlighted a curriculum of English, astronomy and physics. Prior to the contact, the students learned from amateur radio operators about the history of radio transmissions, radio equipment, the structure and the scientific goals of the ISS, as well as real HF radio contacts with amateur radio stations from around the world. After the contact, an ESA Communication Office representative gave a presentation on the ESA education program and ESA Astronaut Paolo Nespoli was present to meet with and talk to the students. There was extensive media coverage including television and newspapers as well as video streaming on the Web.

3. ARISS Contact Between Robert Thirsk and Montreal Schoolchildren

An Amateur Radio on the International Space Station (ARISS) contact was held between Marie-Rivier School in Montreal, Quebec, Canada and Robert Thirsk, VA3CSA on Friday, November 13 via telebridge station VK4KHZ in Australia.
Sixteen questions were asked and answered during the space chat as students learned about the ISS and work and life in space.

4. ARISS International Team Meeting Held

An Amateur Radio on the International Space Station (ARISS) Team meeting was held on Tuesday, November 10. The team provided a status on both the Columbus module antennas and ARISSat-1.
See: https://www.rac.ca/ariss/arisstel2009-11-10.htm

5. ARRL Web Article on STS-129 Mission

The American Radio Relay League (ARRL) ran a Web story on the STS-129 mission which will carry Amateur Radio on the International Space Station (ARISS) antennas to the ISS and deploy them during the second spacewalk.
See: https://www.arrl.org/news/stories/2009/11/12/11195/?nc=1

6. ARRL Letter Posts Two ARISS News Items

The American Radio Relay League (ARRL) posted two ARISS (Amateur Radio on the International Space Station) articles in its November 12 issue of the ARRL Letter. The first item covers the STS-129 mission carrying ARISS antennas to the ISS. The second is an article on the ARISS contact with Garfield Elementary School held in conjunction with the WHEELS NASA Exploration Experience traveling exhibit in Boise, Idaho.
See: https://www.arrl.org/arrlletter/index.html?issue 09-11-12

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits.

Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F
nb2f at amsat dot org

142. ANS-333 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-11-29 02:12:26 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201ca7099$863b2250$92b166f0$@net>
Source record: 541
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-333

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT Settles Clean Room Lawsuits with Defendants
* UO-11 Calls Again
* BT3WX Special Event Station Celebrates Launch of XW-1 Amateur Satellite
* AMSAT Awards
* SKN on OSCAR 2010
* How's Satellite DX?
* ARISS Meets With Astronaut Hams
* SO-67 SumbandilaSat Control Team Invites Coordination Suggestions

SB SAT @ AMSAT $ANS-333.01
AMSAT Settles Clean Room Lawsuits with Defendants

AMSAT News Service Bulletin 333.01
>From AMSAT HQ SILVER SPRING, MD.
November 29, 2009
To All RADIO AMATEURS
BID: $ANS-333.01

On October 20, 2009, AMSAT President Barry Baines, WD4ASW, Rick Hambly, W2GPS, and Bob Davis, KF4KSS met with AMSAT attorney Bruce Bright and participated in a mediation process to see if an agreement could be reached with MDHawk Corporation, MIST, Hawk Institute for Space Sciences (HISS) and University of Maryland Eastern Shore (UMES) regarding the AMSAT clean room litigation (See previous 'Apogee View' articles in the AMSAT JOURNAL for background). After a full day of negotiations at the Henson Center of UMES, an agreement was reached with the defendants that averts further court litigation proceedings. The agreement calls for the defendants to pay AMSAT $19,000.00 and AMSAT will leave the existing cleanroom in place "as-is, where-is." In addition, AMSAT will remove the portable storage unit ('POD') that currently sits on HISS property by November 20, 2009 with payment by the defendants due by that date.

Per the agreement, by November 6 AMSAT removed the POD that was at the HISS facility being used for outside storage and the $19,000.00 payment was received last week from the defendants. Once the check clears, AMSAT attorney Bruce Bright will file the appropriate paperwork to dismiss both the case before the Circuit Court and the case before the District Court that are pending.

The outcome of the negotiation leaves AMSAT in the following condition:

- We have $19,000.00 (minus legal fees owed to our attorney) to invest in a new clean room at a new location in a manner that best serves AMSAT.

- We avoided the cost of dismantling the existing clean room (including electricians to disconnect power and plumbers to remove the fire suppression system), placing it in storage (paying storage fees) and then shipping to our new lab location (incurring relocation fees with a moving company) once such a facility is finalized.

- We end all interaction with HISS, eliminating the need for volunteers to travel to Pocomoke City, MD to be on scene to oversee/manage the removal process of the existing clean room as well as enlist the local amateurs who assisted us in the construction of the clean room in 2007-2008.

- We avoid the cost of future litigation, including the costs of taking depositions, submission of legal briefs, and court costs. The cost of going to court would likely wipe out a significant portion of any cash that we might be able to secure from the legal process and there is no guarantee that court action would result in a desirable outcome.

- Settling at this time allows AMSAT to focus on future opportunities and not continue to allocate resources on resolving past actions.

AMSAT President Barry Baines noted, "This legal process over the past year has been both frustrating and a 'learning experience'. The 'lessons learned' will be applied to future relationships. I look forward to getting this legal process behind us and moving forward on new opportunities."

[ANS thanks AMSAT President Barry Baines, WD4ASW for the above information]

/EX

SB SAT @ AMSAT $ANS-333.02
UO-11 Calls Again

AMSAT News Service Bulletin 333.02
>From AMSAT HQ SILVER SPRING, MD.
November 29, 2009
To All RADIO AMATEURS
BID: $ANS-333.02

Silent for 18 months, it seems as if 25 year old OSCAR-11 has reactivated itself on 145.826 MHz. After its batteries failed, UO-11 remained operational with good signals when its solar cells were exposed to sufficient sunlight.

The UO-11 Control Station at G3CWV came out of retirement last week-end with Clive noting, "I have received two reports from Keith N4ZQ that he has heard UO-11 on 19 November at 13:33 - 13:43, and on 22 November at 13:02 UTC. The frequency is 145.826 MHz. Mode is FM."

Clive says, "I've been receiving good signals from the satellite during the morning passes, when it was not in eclipse. However, on November 27 nothing was heard this morning, so the watchdog timer may have caused the bird to switch off. I would be interested in any reports of reception AFTER 09:30 UTC 26 November."

Since last week, reception reports have been rolling in from around the world:

KB2M reported he has been collecting telemetry from UO-11 for the last week or so. His files are available for anyone decoding the telemetry.

KU7Z heard strong signals from UO-11 on November 26 in Utah.

VK5DG heard UO-11 buzzing away over the west half of VK on November 26 at 0003 UTC.

NH6VB reported from Hawaii his 706MKIIG and Arrow antenna on a photo tripod, copied a weak, barely above noise level, but it was there.

ZL2BX says he heard very strong signals from UO-11 during the entire pass on November 22. Up to 60db over S9 almost all pass. (TS-2000, 10 el yagis, preamp at ant). Also same report from VK2AYE.

W5IU heard the old familiar "buzz" loud and clear on a Yaesu FT-530 HT and a hand held three element Yagi on a November 23 pass over Fort Worth, TX, this morning. It reached full scale on the FT-530 during a good part of the pass.

K9MSG in Indianapolis reported that on November 24 he heard UO-11 on two passes using a ground plane vertical on a tower. Signals on the first pass were S-2 to S-7 signal level and reception was very noisy. The second pass of that day yielded reception at S-1 to S-3 with 1 to 3 second noise bursts.

Clive wraps up with, "Very many thanks to everyone who sent reception reports of this satellite or posted them to the amsat-bb board. I've been overwhelmed by the number received! I've replied to most, but my apologies if I've missed anyone."

Further details, including an audio clip to help identify the satellite are on Clive's OLD website at: http://www.users.zetnet.co.uk/clivew

[ANS thanks Clive, G3CWV for the above information]

/EX

SB SAT @ AMSAT $ANS-333.03
BT3WX Special Event Station Celebrates Launch of XW-1 Amateur Satellite

AMSAT News Service Bulletin 333.03
>From AMSAT HQ SILVER SPRING, MD.
November 29, 2009
To All RADIO AMATEURS
BID: $ANS-333.03

To celebrate the launch of China's first amateur satellite, XW-1, AMSAT-China will set up a special event station in Taiyuan, Shanxi Province of China using the callsign BT3WX. The station plans to operate on all HF amateur bands from 10 to 160 meters and on VHF/UHF amateur satellite bands, including FM, SSB, CW, RTTY and PACSAT modes.

Operations at BT3WX have already commenced and the special event station will remain active until XW-1 is launched. A specific launch date has not been released as of press time, but is expected in mid-December.

A team of 200 participants will consist of radio amateurs from all around China, teachers and students, the State Radio Regulation Bureau of China, the China Association for Science Technology, the Chinese Society of Astronautics and the Chinese Radio Sports Association officials, as well as journalists will participate in the operation of BT3WX. Their goal is to inspire enthusiasm for amateur radio satellite communications activities in China among radio amateurs and young peo-ple learning satellite communication technology and space knowledge.

THE BT3WX operating team is as follows:
Team leader: BA1EO, Fan
Operation and Technology support: BD5RV, Michael Chen
Press release and QSL Manager: BA1DU, Alan Kung
(P.O.Box 8091, Beijing, CHINA 100088)

The operators include BA4RB, BA4RN, BA4RS, BA4RX, BA4TA, BA4TB, BD4IBW, BD4REB, BD4RPJ, BD4XX, BH4REQ, BA6AA, BD6BW, BA7CK, BA7JG, BD7PZL.

The equipment at the HF Station includes an Icom IC-756PROIII and IC-7000. The HF antennas are:

160/80M Ground Plane
40M 3ele Yagi
20/15M 5ele Yagi
10M 3ele Yagi
WARC Ground Plane
Power Amplifier: GO-2KW

At the Satellite station the gear will include an Icom IC-910H feeding a VHF 7 element cross Yagi and UHF 13 element cross Yagi.

BT3WX Communications HF Award:
Stations completing two-way communications with BT3WX on 9 different bands and modes can apply for the BT3WX HF communications award. The same band in different modes counts as a different band / mode.

BT3WX Communications Satellite Award
Stations completing two-way communications with BT3WX through at least two different mode of transponders can apply for the BT3WX satellite communications award. The different modes can be through the same satellite.

BT3WX Communications Awards applications mailing address:
AMSAT-China, P.O.Box 8091, Beijing, CHINA 100088
E-mail: camsat@vip.163.com

The XW-1 communications payload includes a beacon and three cross band transponders operating in FM, linear, and digital modes.
Here is a Spacecraft Summary:

Common Name: XW-1
Alternate Name: CAS-1
Satellite Type: Microsatellite
Launch Date: TBD
Launch Location: Taiyuan Satellite Launch Center of China
Launch Vehicle: CZ-2C(LM-2C) Rocket
Apogee: 1200.00 km
Perigee: 1200.00 km
Inclination: 100.50 deg
Period: 109.00 min
Dimensions: 680mm*480mm (Envelope dimension), not including antennas

Weight: 60.000 Kg
Organization: CAMSAT

Frequency Information

Mode Beacon (200 mw):
Downlink 435.7900 MHz CW

Mode FM Voice Repeater (1 watt, PL: 67Hz):
Uplink: 145.8250 MHz FM
Downlink 435.6750 MHz FM

Mode Linear Transponder (1 watt, Inverting):
Uplink: 145.950 MHz SSB/CW
Downlink 435.740 MHz SSB/CW
The transponder is 50khz wide and centered on the frequencies given.

Mode PacSat BBS (1 watt):
Uplink: 145.8250 MHz AFSK 1200 BPS
Downlink 435.6750 MHz AFSK 1200 BPS

Antennas:
145 Mhz RX Antenna: 2.0dBi max, LHCP
435 Mhz TX Antenna: 3.0dBi max, RHCP

The AMSAT Satellite information page will be updated as the latest information is received from AMSAT-China. Monitor this page for the latest news: http://tinyurl.com/ylj9z5j

[ANS thanks Alan Kung, BA1DU and Drew Glasbrenner, KO4MA for the above information]

/EX

SB SAT @ AMSAT $ANS-333.04
AMSAT Awards

AMSAT News Service Bulletin 333.04
>From AMSAT HQ SILVER SPRING, MD.
November 29, 2009
To All RADIO AMATEURS
BID: $ANS-333.04

AMSAT Director Contests and Awards, Bruce KK5DO congratulates all who have earned these AMSAT Awards:

The following have entered into the Satellite Communicators Club for making their first satellite QSO:
Luis Benvenutty, WP4NYY
Zeljko Ulip, 9A2EY

The following have earned the AMSAT Satellite Communications Achievement Award:
Rodney Waln, KC0ZHF #506
Neven Mrduljas, 9A5YY #507
Zeljko Ulip, 9A2EY #508

The following have earned the AMSAT Sexagesimal Award.
Patrick Stoddard, WD9EWK #151
Gail McDaniel, KB0RZD #152
Nick Kucij, KB1RVT #153

The following have earned the AMSAT Century Club award.
Michael Klomfass, DH5MK #38

The following have earned the South Africa Communications Achievement Award.
Rodney Waln, KC0ZHF #US138
Zeljko Ulip, 9A2EY #US139

The following have earned the W4AMI Achievement Award (for 1000 contacts)
Gail McDaniel, KB0RZD #57
Zeljko Ulip, 9A2EY #58

To see all the awards visit http://www.amsat.org.

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-333.05
SKN on OSCAR 2010

AMSAT News Service Bulletin 333.05
>From AMSAT HQ SILVER SPRING, MD.
November 29, 2009
To All RADIO AMATEURS
BID: $ANS-333.05

All radio amateurs, worldwide, are cordially invited to participate in AMSAT's Straight Key Night on OSCAR 2010.

Participating in SKN on OSCAR 2010 is easy. No rules, no scoring and no need to send in a log. Just operate CW through any OSCAR between 0000 and 2400 UTC on 1 January 2010, using a straight hand key.

In keeping with the friendly nature of this event, all participants are encouraged to nominate someone they worked for "Best Fist." Your nominee need not have the best fist of those you heard, just of those you worked. Please send your nomination to w2rs@amsat.org. A list of those nominated will appear in ANS and The AMSAT Journal.

CU SKN de W2RS!

[ANS thanks Ray, W2RS for the above information]

/EX

SB SAT @ AMSAT $ANS-333.06
How's Satellite DX?

AMSAT News Service Bulletin 333.06
>From AMSAT HQ SILVER SPRING, MD.
November 29, 2009
To All RADIO AMATEURS
BID: $ANS-333.06

AO-51 Contact ZL2BX from McMurdo Station Antarctica

Bill, K7MT has activated Antarctica as KC4USV on AO-51. He worked Alan, ZL2BX from the McMurdo Station Antarctica on November 27. Bill plans more satellite operation this weekend when he is off for two days. Hopefully more VK's and ZL's will hear "Cheers from McMurdo Station Antarctica KC4USV."

Iceland to W7 via AO-7

Bob, W7LRD reported he recently worked Ari, TF3ARI in Iceland on AO-7. The AO-7 footprint from TF will cover most of the U.S.! Contacts via AO-51 between US East Coast stations and Iceland were reported by John, K8YSE

[ANS thanks Terry, ZL3QL; Bill, K7MT/KC4USV; Bob, W7LRD for the above information]

/EX

SB SAT @ AMSAT $ANS-333.07
ARISS Meets With Astronaut Hams

AMSAT News Service Bulletin 333.07
>From AMSAT HQ SILVER SPRING, MD.
November 29, 2009
To All RADIO AMATEURS
BID: $ANS-333.07

ISS Ham Debrief Held with Astronaut Michael Barratt

On November 16, Amateur Radio on the International Space Station (ARISS) team members participated in an ISS Ham debrief session with Expedition 19/20 astronaut Michael Barratt. Barratt provided the team with feedback about the ARISS contacts held during his ISS mission. The feedback will be used to fine-tune ARISS program operations.

Astronaut Training Status

Two training sessions were held this week with astronauts Tracy Caldwell, KF5DBF and Dan Burbank, KC5ZSX. Both astronauts were given the Amateur Radio on the International Space Station (ARISS) basic operations and school contact course. Caldwell also received her preflight overview as she is scheduled to fly with Expedition 23 in April 2010. Burbank will fly with Expedition 29 in September 2011.

[ANS thanks Carol, KB3LKI and the ARISS Status Report for the above information]

/EX

SB SAT @ AMSAT $ANS-333.08
SO-67 SumbandilaSat Control Team Invites Coordination Suggestions

AMSAT News Service Bulletin 333.08
>From AMSAT HQ SILVER SPRING, MD.
November 29, 2009
To All RADIO AMATEURS
BID: $ANS-333.08

Jan-Albert, ZR1JAK, wrote on behalf of the SO-67 SumbandilaSat team, "Given that the SA-AMSAT payload on SO-67 is shared with the satellite's back-up TT&C transponder, there is unfortunately not a way to keep the payload switched on permanently, or even semi-permanently. For the lifetime of the satellite we will therefore have to do with active scheduling."

In an effort to make this as painless as possible, ZR1AJK requests comments on the possible use of regional coordinators, which worked quite well for SO-35. Such coordinators would then be responsible for setting up schedules in advance for their specific regions, taking into account obviously the pool of possible satellite passes, as well as local events / fairs etc. The SO-67 Command Station would then simply load the schedules on a weekly basis.

The initial focus has been on Europe, RSA, South America, North America, Canada, Japan and Australia, and New Zealand, ZR1JAK invites suggestions for amateur radio use of the payload over other regions as well.

In regards to questions of possible activation at night he explained, "This is entirely possible, but would have to be planned and managed more actively, given the power limitations in eclipse. We have yet to experiment with this and see what the available capacity would be.

Interested satellite operators are invited to e-mail responses to the AMSAT bulletin board, or if you prefer, to ZR1JAK's work address: jak "at" sunspace "dot" co "dot" za.

[ANS thanks Jan-Albert, ZR1JAK for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that, consider what sound does a space turkey make? Hubble, hubble, hubble, of course.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

143. satelita Chin WX-1

Newsgroup: rec.radio.amateur.space
Date: 2009-11-29 09:41:55 UTC
From: Adrian Szumilas <szumiksp8aqk@poczta.onet.pl>
Message-ID: <hetflc$3hg$1@news.onet.pl>
Source record: 542

Satelita WX-1 planowany start po�owa grudnia

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Mode Beacon (200mW)

Downlink 435.7900 MHz CW

Mode FM Voice Repeater (1 watt, PL: 67Hz)

Uplink: 145.8250 MHz FM

Downlink 435.6750 MHz FM

Mode Linear Transponder (1 watt, Inverting):

Uplink: 145.950 MHz SSB/CW

Downlink 435.740 MHz SSB/CW

The transponder is 50khz wide and centered on the frequencies given.

Mode PacSat BBS (1 watt):

Uplink: 145.8250 MHz AFSK 1200 BPS

Downlink 435.6750 MHz AFSK 1200 BPS

Antennas:

145 Mhz RX Antenna: 2.0dBi max, LHCP

435 Mhz TX Antenna: 3.0dBi max, RHCP
```

Informacje AMSAT -
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=116&retURL=satellites/futures.php
b�d� uaktualniane.
--
ADRIAN SP8AQK GG 8897051

144. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.space
Date: 2009-12-01 07:00:08 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1259650800@panix.com>
Source record: 543
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

145. WSR-335 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-12-01 13:59:53 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000f01ca728e$88985e90$99c91bb0$@net>
Source record: 544
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-335.S1
WSR 335 Part 1 12/01/2009

AMSAT NEWS SERVICE BULLETIN 335.S1
FROM AMSAT HQ SILVER SPRING, MD, December 01, 2009
TO ALL RADIO AMATEURS
BID: $WSR-335.S1

SO-67 SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning

Callsign: ZS0SUM

Uplink: 145.875MHz FM tone 233.6 Hz
Downlink: 435.345MHz FM

For more information about SO-67:
http://www.amsatsa.org.za/
[11212009]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
```

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: System Reload in progress

Current Modes:
FM Repeater ONE
Uplink: 145.920MHz FM
Downlink: 435.300Mhz FM
FM Repeater TWO
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB

145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11112009]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]

=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 22 Crew:
Commander: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12012009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-335.S2
WSR 335 Part 2 12/01/2009

AMSAT NEWS SERVICE BULLETIN 335.S2
FROM AMSAT HQ SILVER SPRING, MD, December 01, 2009
TO ALL RADIO AMATEURS
BID: $WSR-335.S2

SwissCube
Catalog Number: 35932
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[11112009]
=====
UWE-2

Catalog Number: 35934
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[1112009]
=====
ITUpsAT1
Catalog Number: 35935
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[11112009]
=====
BEESAT
Catalog Number: 35933
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[11112009]
=====
Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
=====
BEVO-1 (DRAGONSAT-1)

Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6 FHSS
[11112009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====

KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375

Launch date: June 29, 2004

Status: System Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920MHz FM
Downlink: 435.300Mhz FM
FM Repeater TWO
Uplink: OFF
Downlink: OFF
BBS
Uplink: 1268.700MHz 9k6 FM
Downlink: 435.150MHz 9k6 FM
Telemetry
Downlink: 435.150MHz

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10262009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60

[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 22 Crew:
Commander: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12012009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-335.S3
WSR 335 Part 3 12/01/2009

AMSAT NEWS SERVICE BULLETIN 335.S3
FROM AMSAT HQ SILVER SPRING, MD, December 01, 2009
TO ALL RADIO AMATEURS
BID: $WSR-335.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[12012009]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829

Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
AO-24 ARSENE
Catalog Number: 22654
Launch Date: May 13, 1993

Status: Non-operational

Uplink: ?
Downlink: 145.975 MHz 1k2bps FM AFSK
2446.540 MHz

Broadcast callsign:
BBS:
[11212009]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB

Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01012009]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====

RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-335.S4
WSR 335 Part 4 12/01/2009

AMSAT NEWS SERVICE BULLETIN 335.S4
FROM AMSAT HQ SILVER SPRING, MD, December 01, 2009
TO ALL RADIO AMATEURS
BID: $WSR-335.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

146. [HAM-UNIV] College Satellite night Thursday December 3rd

Newsgroup: rec.radio.amateur.space
Date: 2009-12-02 16:24:06 UTC
From: "Dr. Jay Garlitz" <drjay@gatordental.com>
Message-ID: <200912021206.nB2C6Tk8010484@mail41.atl.registeredsite.com>
Source record: 545
Cross-posted to: rec.radio.amateur.space,rec.radio.info

It's time for another College Satellite night! I hope to see you on Thursday evening Dec. 3rd (local time) from 22:00 UTC to 0500 UTC.

>From 22:00 UTC to 05:00 UTC get on as many of the birds and make as many contacts if you can, identifying your contacts as part of a college night effort. Birds include AO51, SO50, AO7, VO52, should all have passes during that time. Contact friends at other university clubs and get them to join in.

Please QSL all the stations you work as we are planning on creating an award for working college club stations on satellite. This makes for a great public image for your school and rewards the stations for allowing us coordinated use of such valuable time on the birds. Make sure to work each other as well and we will also create a special award for college clubs that work and confirm the most other club stations on the birds!

Let's make College Satellite nights a monthly event. Currently we have it set for the first Thursday of the month. If you would like to work on a team creating the awards and publicizing these events please let me know at jgarlitz@ufl.edu. It would help to have on-air moderators from the east coast, central and west coast regions, to make sure hams using the birds know why we are there and to focus on working college stations. Stanford U and Kansas U have been very active in recent events and would be ideal for their two geographic areas.

73, Dr. Jay Garlitz, AA4FL

Gator ARC Faculty Advisor at UF

www.gatorradio.org <http://www.gatorradio.org/>

Submissions: ham-univ@w6yx.stanford.edu
Administrative requests: ham-univ-request@w6yx.stanford.edu
Human list administrator: ham-univ-approval@w6yx.stanford.edu

147. ANS-340 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-12-07 19:06:46 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001001ca7770$70acdd60$52069820$@net>
Source record: 546
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-340

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Magnetic Flip Experiment Aboard AO-51 Successfull
* OSCAR-11 REPORT 30 November 2009
* ARISS Status - 30 November 2009

SB SAT @ AMSAT $ANS-340.01
Magnetic Flip Experiment Aboard AO-51 Successfull

AMSAT News Service Bulletin 340.01
From AMSAT HQ SILVER SPRING, MD.
December 6, 2009
To All RADIO AMATEURS
BID: $ANS-340.01

Since its launch AMSAT-Echo AO-51 has carried a spacecraft attitude adjustment experiment which was tested for the first time this week. The experiment contains a "reversible" magnet which will align the spacecraft with Earth's magnetic field.

On the December 2, 2242 UTC pass of AO-51 AMSAT-NA VP Operations Drew Glasbrenner, KO4MA issued the command to reverse the magnet and "flip" the orientation of the satellite. The first effect of the experiment was expected to be some changes in signal levels and patterns. AO-51's 435 MHz downlink was expected to become slightly weaker in the northern hemisphere and slightly stronger in the southern hemisphere.

ZL2BX reported, "With two usable passes over ZL last night the most notable feature was the frequent polarity shifts. Certainly good strong signals but difficult to tell how it compares to previous signal levels."

IW4DVZ reported results from a contact with EI8JB, "For me nothing changed, I received from AO-51 the same strong signal as usual."

W6ZKH reported the only difference were frequent polarity changes. The signal strength here on the West Coast seemed to be the same as before.

Tom Clark, K3IO offered an explanation for the received signal changes, "Since angular momentum must be conserved when you "flip" the space-craft it should precess (probably looking like tumbling) until the mom-entum dampers absorb the change. Keep an eye on the solar panel currents and I'll bet the spin rate will change."

Drew concluded, "We are still sifting through the telemetry, but as Tom suggested in his email, the satellite is precessing (wobbling) quite severely. This will calm down as the hysteresis rods do their job. Ini-tial reports from Australia and New Zealand indicate stronger signals, and about the same from South Africa. There are some peculiar things about the magnetic field near South Africa, so that doesn't surprise me too much, but is worth digging into once we get the whole orbit tele-metry down."

The AO-51 Command Team appreciates any signal reports or observations for the next few days that you can email to ao51-modes@amsat.org or ko4ma@amsat.org. In a week or so the Command Team expects to re-orient AO-51 back to its original attitude.

Twitter users can receive tweets from the AO-51 command team at http://twitter.com/AMSAT or by adding "AMSAT" to your follow list.

[ANS thanks the AO-51 Command Team for the above information]

/EX

SB SAT @ AMSAT $ANS-340.02
OSCAR-11 REPORT 30 November 2009

AMSAT News Service Bulletin 340.02
From AMSAT HQ SILVER SPRING, MD.
December 6, 2009
To All RADIO AMATEURS
BID: $ANS-340.02

This report covers the period from 21 April 2008 to 30 November 2009.

The satellite unexpectedly resumed transmissions recently. It was first heard by Keith N4ZQ on 19 November 2009 and transmissions con-tinued until it switched OFF on 27 November. It was last heard by Tetsu JA0CAW at 23:59 UTC 26 November 2009. Previously, it was last heard by Peter ZL3TC on 23 April 2008, on a single pass.

Study of the satellite's behavior had suggested that its battery would not sustain operation during solar eclipses, and the watchdog timer would switch the satellite OFF after less than an orbit. Eclipses are now occur during every orbit and will continue for many years. In practice this meant that OSCAR-11 would only be heard occasionally by

stations monitoring the frequency while listening for other satellites.

During this period of inactivity the satellite achieved 25 years in orbit on 01 March 2009. Congratulations to Professor Sir Martin Sweeting, his team at the University of Surrey and participating amateur radio groups, for this fine achievement.

Good signals have been received by stations located all over the world during this recent period of activity and telemetry has been decoded successfully. However, the satellite has only transmitted when in sunlight. I have been overwhelmed by the number of reports received, too many to list individually! Many thanks to everyone who sent email reports or posted to AMSAT-BB.

The telemetry is unchanged from the 2008 downloads. The on-board clock is now 241 days slow. When last received in 2008 it was 83 days slow. The increasing error suggests that the clock may be stopping, when the satellite is in eclipse.

The exact date when the satellite started transmitting is not known, so if the watchdog timer was reset, the next transmissions might start around 16 December, however if the timer went through its full operating cycle, transmissions could resume around 06 December.

The Beacon frequencies are -

VHF 145.826 MHz. AFSK FM ASCII Telemetry

UHF 435.025 MHz. OFF

S-band 2401.5 MHz. OFF

The satellite is now subject to eclipses during every orbit. Long term predictions indicate that eclipses will occur until 2019, when there will be some eclipse free periods until 2023. However these very long term predictions should be regarded with caution, as large tracking errors can accumulate over long periods of time.

When telemetry was last received it showed that one of the solar arrays had failed, and there was a large unexplained current drain on the main 14 volt bus. After 25 years in orbit the battery has undergone over 100,000 partial charge/discharge cycles, and observations suggest that it cannot power the satellite during eclipses lasting more than about ten minutes, or sometimes even during periods of poor solar attitude.

RECEPTION REPORTS REQUESTED!

Please send reception reports to xxxxx@amsat.org (replace xxxxx by g3cwv) or post to amsat-bb. If you have a file, please let me know what you have, before sending it!

The satellite transmits on 145.826 MHz., set receiver to NBFM. OSCAR-11 has a characteristic sound, rather like raspy slow morse code, sending

"di di dah dah dah dah dah dah dah" sent over five seconds. If you are receiving a very weak signal, switch the receiver to CW or SSB. You should hear several sidebands around the carrier frequency, should be able to hear the characteristic 'morse code like' sound on at least one sideband.

Please note that you need a clean noise free signal to decode the signals. There is an audio clip on my OLD website www.users.zetnet.co.uk/clivew/ which may be useful for identification and as test signal for decoding.

The current status of the satellite, is that all the analogue telemetry channels, 0 to 59 are zero, ie they have failed. The status channels 60 to 67 are still working. The real time clock is showing a large accumulated error, although over short periods timekeeping is accurate to a few seconds per month. When last heard the clock was 241 days slow. The day of the month has a bit stuck at 'one' so the day of the month may show an error of +40 days for some dates. The time display has switched

into 12 hour mode. Unfortunately, there is no AM/PM indicator, since the

time display format was designed for 24 hour mode.

The spacecraft computer and active attitude control system have switched OFF, ie. the satellite' attitude is controlled only by the passive gravity boom gradient, and the satellite is free to spin at any speed.

The watchdog timer now operates on a 20 day cycle. The ON/OFF times have tended to be very consistent. The average of many observations show this

to be 20.7 days, ie. 10.3 days ON followed by 10.4 days OFF. However, poor solar attitude may result may result in a low 14 volt line supply, which may cause the beacon to switch OFF prematurely, and reset the watchdog timer cycle. When this occurs, the beacon is OFF for 20.7 days.

OSCAR-11 was the second satellite from the University of Surrey, http://www.ee.surrey.ac.uk/SSC. It was designed, built and launched, within a time scale of six months, by a team headed by Martin Sweeting G3YJO. Amateur radio groups working at various locations in the world, also contributed to the project. It used commercially available 'off the shelf' components (COTS). Following the success of these satellites,

in 1985 Surrey Satellite Technology Ltd. www.sstl.co.uk was formed, as a commercial venture. This grew into a major company which has produced over 30 small satellite projects for a global market.

The University of Surrey has recently sold it's major shareholding in SSTL to EADS-Astrium. The joint company will therefore have the experience of manufacturing large and small satellites, for geo-synchronous and low earth orbits.

In regognition of his work, Martin G3YJO, was appointed Professor at the University of Surrey. He received an OBE in the 1995 Queens birthday honours list, and in 2002 a knighthood in the New Year's honours list.

Listeners to OSCAR-11 may be interested in visiting my websites. If you need to know what OSCAR-11 should sound like, there is a short audio clip for you to hear. The last telemetry received from the satellite is available for download. The website contains an archive of news & telemetry data which has now been updated. It also contains details about using a soundcard or hardware demodulators for data capture. There is software for capturing data, and decoding ASCII telemetry. The URL is http://www.users.zetnet.co.uk/clivew/ However, please note that this site is no longer being updated, and the latest news and information will and will be uploaded to my new site which is currently being constructed at http://www.g3cwv.co.uk.

If you place this bulletin on a terrestrial packet network, please use the bulletin identifier $BID:U2RPT145.CWV, to prevent duplication.

73 Clive G3CWV xxxxx@amsat.org (please replace xxxxx by g3cwv)

[ANS thanks Clive, G3CWV, for the above information]

/EX

SB SAT @ AMSAT $ANS-340.03
ARISS Status - 30 November 2009

AMSAT News Service Bulletin 340.03
From AMSAT HQ SILVER SPRING, MD.
December 6, 2009
To All RADIO AMATEURS
BID: $ANS-340.03

1. De Winne Speaks with Dumbleyung Primary School through ARISS

On Thursday, November 26, Dumbleyung Primary School in Western Australia took part in an Amateur Radio on the International Space Station (ARISS) contact with Frank De Winne, ON1DWN via telebridge station VK4KHZ in Australia. To prepare for the contact, students studied Earth, its structure and the solar system. As part of the ARISS event, students in Years 5 -7 gave presentations of their space work and viewed footage of the ISS as well as video of an astronaut interview. All 21 children had their questions answered during their radio contact and ABC (Australian Broadcasting Corporation) News covered the event.

2. Don Bosco Institut Experiences ARISS Contact

On Thursday, November 26, an Amateur Radio on the International Space Station (ARISS) contact was held between Institut Don Bosco in Bruxelles,
Belgium and Frank De Winne on the ISS. The connection was made possible through telebridge station ON4ISS in Belgium. Students asked 19

questions
of the astronaut during the ISS pass. Don Bosco is a secondary
industrial
technical school with an enrollment of approximately 750 students and
offers courses in carpentry, electricity, mechanics, computing, printing

and electronics.

3. ARISS Contact held with Katholieke Centrumscholen Sint-Truiden
Students

Students attending Katholieke Centrumscholen Sint-Truiden in
Sint-Truiden,
Belgium experienced a successful Amateur Radio on the International
Space
Station (ARISS) contact with Frank De Winne on Thursday, November 26 via
telebridge station ON4ISS in Belgium. Twenty questions were asked and
answered. In order to prepare for the radio contact, the students
studied
astronomy and science. In addition, the school headmaster talked to the
youth about the ISS and his own experiences during two "space camps" in
the U.S. (Huntsville and Kennedy Space Center).

4. ARRL Covers Installation of Columbus Module Antennas

The American Radio Relay League (ARRL) ran an article about the new
antennas that were installed on the Columbus module. To view the story,
which ran in the November 25 issue of the ARRL Letter, see:
https://www.arrl.org/arrlletter/index.html?issue 09-11-25

5. ARISS News on Amateur Radio Newsline

On November 27, Amateur Radio Newsline Report 1685 reported on the new
Columbus module ARISS (Amateur Radio on the International Space
Station)
antenna. To view "Ham Radio in Space: ISS Gets New Dual Band Antenna,"
see: ftp://ftp.arnewsline.org/quincy/News/news.txt

6. New Web Site for ARISS-Brazil

ARISS Brazil recently formed a partnership with the internet portal
Diï¿½rio da Produï¿½ï¿½o.com to publicize ARISS activities in Brazil and

South America. To view the Web site, go to: http://diariodaproducao.com/

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.

Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

148. Radio Meteor Obs. Bull. November 2009 Leonids

Newsgroup: rec.radio.amateur.space
Date: 2009-12-07 19:39:18 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <3fmqh5duqba767jifr5d5jvik0elhlbl3v@4ax.com>
Source record: 547
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 196 of November 2009 (99 K) is available now as

http://www.rmob.org/rmobtext/rmob0911.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

Chris

149. WSR-350 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-12-17 23:33:17 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <007301ca7f71$645f0020$2d1d0060$@net>
Source record: 548
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-350.S1
WSR 350 Part 1 12/16/2009

AMSAT NEWS SERVICE BULLETIN 350.S1
FROM AMSAT HQ SILVER SPRING, MD, December 16, 2009
TO ALL RADIO AMATEURS
BID: $WSR-350.S1

XW-1 CAS-1
Catalog Number:
Launch Date: December 15, 2009
Status: Commissioning

Callsign:

Uplinks: 145.8250 MHz FM, PL 67.0 Hz.
145.9250 - 145.9750 MHz SSB/CW
145.8250 MHz AFSK 1200 BPS
Downlinks: 435.6750 MHz FM
435.7650 - 435.7150 MHz SSB/CW
435.6750 MHz AFSK 1200 BPS

Beacon: 435.7900 MHz CW

Mode and Antenna Polarization:
V:
U:

IARU coordination page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108

For more information about XW-1 (CAS-1):
http://www.camsat.cn
[12162009]
=====
SO-67 SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning
```

Callsign: ZS0SUM

Uplink: 145.875MHz FM tone 233.6 Hz
Downlink: 435.345MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

For more information about SO-67:
http://www.amsatsa.org.za/
[11212009]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes:
FM Repeater ONE
Uplink: 145.880MHz FM
Downlink: 2401.200Mhz FM
FM Repeater TWO
Uplink: OFF
Downlink: OFF
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: 435.150MHz 9k6

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/CTNews.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12162009]

=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 22 Crew:
Commander: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12012009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-350.S2
WSR 350 Part 2 12/16/2009

AMSAT NEWS SERVICE BULLETIN 350.S2
FROM AMSAT HQ SILVER SPRING, MD, December 16, 2009
TO ALL RADIO AMATEURS
BID: $WSR-350.S2

XW-1 CAS-1
Catalog Number:
Launch Date: December 15, 2009
Status: Commissioning

Callsign:

Uplinks: 145.8250 MHz FM, PL 67.0 Hz.
145.9250 - 145.9750 MHz SSB/CW
145.8250 MHz AFSK 1200 BPS
Downlinks: 435.6750 MHz FM
435.7650 - 435.7150 MHz SSB/CW
435.6750 MHz AFSK 1200 BPS

Beacon: 435.7900 MHz CW

IARU coordination page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108

For more information about XW-1 (CAS-1):
http://www.camsat.cn
[12162009]
=====
SwissCube
Catalog Number: 35932
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[11112009]
=====
UWE-2

Catalog Number: 35934
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[1112009]
=====
ITUpsAT1
Catalog Number: 35935
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[11112009]
=====
BEESAT
Catalog Number: 35933
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[11112009]
=====
Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
=====
BEVO-1 (DRAGONSAT-1)

Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6 FHSS
[11112009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL
=/satellites/status.php
[022152009]
=====

KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes:
FM Repeater ONE
Uplink: 145.880MHz FM
Downlink: 2401.200Mhz FM
FM Repeater TWO
Uplink: OFF

Downlink: OFF
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: 435.150MHz 9k6

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/CTNews.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12162009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]
=====

CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT
Catalog number: 20442

Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[12162009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 22 Crew:
Commander: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12012009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-350.S3
WSR 350 Part 3 12/16/2009

AMSAT NEWS SERVICE BULLETIN 350.S3
FROM AMSAT HQ SILVER SPRING, MD, December 16, 2009
TO ALL RADIO AMATEURS
BID: $WSR-350.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====

XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL
=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====

OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php
[12012009]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html

[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
AO-24 ARSENE
Catalog Number: 22654
Launch Date: May 13, 1993

Status: Non-operational

Uplink: ?
Downlink: 145.975 MHz 1k2bps FM AFSK
2446.540 MHz

Broadcast callsign:
BBS:
[11212009]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]

=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====

AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236

Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-350.S4
WSR 350 Part 4 12/16/2009

AMSAT NEWS SERVICE BULLETIN 350.S4
FROM AMSAT HQ SILVER SPRING, MD, December 16, 2009
TO ALL RADIO AMATEURS
BID: $WSR-350.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1

Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728

FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

150. ANS-354 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-12-20 02:45:17 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001a01ca811e$90519c70$b0f4d550$@net>
Source record: 549
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-354

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT China's XW-1 Satellite Testing Proceeding Well
* AO-51 Schedule to Support SKN
* January 2010 AMSAT Kid's Day on AO-51
* Students and Teachers Invited to Fly a File on ARISSAT-1
* NASA Revised EVA Schedule Affects ARISSat
* Satellite Shorts From All Over
* ESA and CNES to Fly Atomic Clock to ISS Columbus Module

SB SAT @ AMSAT $ANS-354.01
AMSAT China's XW-1 Satellite Testing Proceeding Well

AMSAT News Service Bulletin 354.01
>From AMSAT HQ SILVER SPRING, MD.
December 20, 2009
To All RADIO AMATEURS
BID: $ANS-354.01

Amateur satellite operators worldwide have reported receiving strong signals on the telemetry beacon of China's XW-1 satellite launched on December 15, 2009.

The satellite is currently being commissioned but all three amateur radio modes, which include an V/U FM repeater, V/U linear transponder, and V/U AFSK packet, have been tested.

Michael Chen, BD5RV/4 reported, "I managed to operate the special event station BT3WX to work several E2, BY, VR2, XX9 throughout an evening pass of XW-1 using the FM transponder. It was the first open test of this bird's transponder. Everything works just great!"

AFSK packets were active over Japan with JA0CAW receiving the down-link on 435.675 MHz AFSK 1200bps.

JE1CVL, JH1EKH, BD4SY, JF2CTY, JH1BCL, JA5BLZ succeeded in a QSO over Japan using the linear transponder in 'VHF(LSB) up and UHF (USB) Linear Transponder Inverting on 145.950 MHz (Up) and 435.740 MHz (Down).

The XW-1 communications payload includes a beacon and three cross band transponders operating in FM, linear, and digital modes.

Uplinks: 145.8250 MHz FM, PL 67.0 Hz.
145.9250 - 145.9750 MHz SSB/CW
145.8250 MHz AFSK 1200 BPS

Downlinks: 435.6750 MHz FM
435.7650 - 435.7150 MHz SSB/CW
435.6750 MHz AFSK 1200 BPS

Beacon: 435.7900 MHz CW

Users have posted videos on YouTube regarding XW-1:
http://www.youtube.com/watch?v=n4-0yuC4Sx4&feature=related
http://www.youtube.com/watch?v=WwyTZT6JkC4

Luciano Fabricio PY5LF has made a YouTube video showing his reception of the beacon: http://tinyurl.com/yjgett6

XW-1 was a secondary payload aboard the CZ-4C rocket from Taiyuan Satellite Launch Center into a sun-synchronous orbit about 1200 kilometers high. The primary payload of this launch is the Yaogen-8 Remote Sensing Satellite.

BD5RV/4 requests amateur radio operators send him audio recordings, notes on received content, your QTH, callsign, date/time of the XW-1 beacon you heard to AMSAT China by email. Later, you'll be able to upload it via web, but for now, email works. Send your files and information to michael.bd5rv@gmail.com.

XW-1 CW Telemetry Decoder by Mike Rupprecht, DK3WN can be downloaded from his web site at: http://www.dk3wn.info/software.shtml

You can get an updated copy of the XW-1 Telemetry Format at:
http://www.camsat.cn/index.php?option=com_phocadownload&view=category&id=1:xw-1&download=1:xw-1-telemetry&Itemid=66 (careful - line wrap)

The XW-1 Store-forward Transponder User's Manual can be found on the AMSAT web at: http://www.amsat.org/amsat-new/satellites/documents/XW-1_Store-forward_Transponder_Users_Manual.pdf (careful - line wrap)

Details of the XW-1 satellite are available at:
http://www.camsat.cn/index.php?option=com_content&view=article&id=56&Itemid=67 (careful - line wrap)

[ANS thanks Michael Chen BD5RV/4 and Alan Kung, BA1DU for the above information]

/EX

SB SAT @ AMSAT $ANS-354.02
AO-51 Schedule to Support SKN

AMSAT News Service Bulletin 354.02
>From AMSAT HQ SILVER SPRING, MD.
December 20, 2009
To All RADIO AMATEURS
BID: $ANS-354.02

The AMSAT AO-51 Operations Group reminds everyone that AO-51 will be configured to support CW operations during the annual Straight Key Night event. Participants may operate CW through AO-51 between 0000 and 2400 UTC on 1 January 2010, using a straight hand key.

AO-51 will be configured in the following mode during the event:
SSB/FM Repeater, V/U (CW QSOs only on Straight Key Night)
Uplink: 145.880 MHz USB
Downlink: 435.150 MHz FM

And don't forget to nominate someone you work for "Best Fist". Please send your nomination to w2rs@amsat.org. A list of those nominated will appear in ANS and the AMSAT Journal.

Have fun and enjoy AO-51!

[ANS thanks the AMSAT AO-51 Operations Group and Ray, W2RS for the above information]

/EX

SB SAT @ AMSAT $ANS-354.03
January 2010 AMSAT Kid's Day on AO-51

AMSAT News Service Bulletin 354.03
>From AMSAT HQ SILVER SPRING, MD.
December 20, 2009
To All RADIO AMATEURS
BID: $ANS-354.03

AMSAT-NA and the AO-51 Operations Group will sponsor Kid's Day on AO-51 on January 3, 2010. The event is open to all kids, worldwide.

We ask all amateur radio stations to give this short time window to promote satellite operations with kids, by actually showing a kid how to make contacts via AO-51, providing a station to contact, or stepping aside to allow others to make contacts with the kids. During the event, please limit contacts to stations that are operating with kids at the microphone. This should allow the kids to have a nice QSO and pass some information. Kids can tell their name, age, who is helping them operate on AO-51, where they live, and other information about themselves.

AO-51 will be configured in the following mode during the event.
Uplink: 145.880 MHz FM voice
Downlink: 435.300 MHz FM voice

See http://www.arrl.org/FandES/ead/kd-rules.html on the ARRL
website for more Kids Day information.

Have fun and enjoy AO-51!

[ANS thanks the AO-51 Operations Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-354.04
Students and Teachers Invited to Fly a File on ARISSAT-1

AMSAT News Service Bulletin 354.04
>From AMSAT HQ SILVER SPRING, MD.
December 20, 2009
To All RADIO AMATEURS
BID: $ANS-354.04

On 3 February 2006, cosmonaut Valery Ivanovich Tokarev hand launched the Amateur Radio satellite SuitSat-1 from the ISS during an EVA (Extra Vehicular Activity = Spacewalk).

SuitSat-1 was a very special Amateur Radio satellite. A discarded Russian ORLAN Space Suit (in Russian a "Skafander") was equipped with an Amateur Radio transmitter, which transmitted telemetry and greetings from youngsters to the youth of the world in several languages.

In 2010, an Amateur Radio satellite will once more be hand launched from the International Space Station. It will be called ARISSat-1.

ARISSat-1 will again transmit messages recorded by students. Moreover, teachers and students are invited to fly a file aboard this amateur radio satellite.

The ARISSat-1 Team wishes to include on our new satellite a memory stick of files prepared by students. This should be a jpg or pdf of things the student has prepared such as a paper or a study done on a STEM (science, technology, engineering, math) topic, a drawing of space craft or a schematic, a journal kept on a STEM topic, a story or news article about a STEM subject, a photo of the class doing a hands-on STEM activity -- that type of thing.

Having the student's work be a part of ARISSat-1 means the student is a part of the satellite project and along for the spacewalk and deployment of ARISSat-1.

Readers of this Bulletin are invited to approach teachers and students and draw their attention on this opportunity to participate directly to a space flight for the honor of being part of space activities.

Dave Jordan, AA4KN, will take delivery of these files and copy them onto a memory stick. The quantity of files and the size of a file are unlimited since memory sticks provide for a very large amount of file

space.

Files should be either .JPG or .PDF -- no Word documents, please.
Please send files to Dave Jordan's address -- <aa4kn@amsat.org>
He will look at all of them for content appropriate to students.

Files can be in any language as long as an English translation is
also included as a text file.

If the file contains sound recordings and/or photos or names of
persons, a "Talent Authorisation and Release" is requested. The
appropriate document can be downloaded from
http://www.rac.ca/ariss/Talent_Release.htm

The permission slip has to be signed by the student or his/her
guardian if the student is a minor.

The signed release form is to be mailed to:
AMSAT
Martha Saragovitz
850 Sligo Ave. Suite 600
Silver Spring, MD 20910

Deadline for submitting files: March 1st, 2010.

[ANS thanks the ARISS Team for the above information]

/EX

SB SAT @ AMSAT $ANS-354.05
NASA Revised EVA Schedule Affects ARISSat

AMSAT News Service Bulletin 354.05
>From AMSAT HQ SILVER SPRING, MD.
December 20, 2009
To All RADIO AMATEURS
BID: $ANS-354.05

NASA has informed AMSAT that the schedule of work for EVAs at the
International Space Station is being revised. The planned deploy-
ment of ARISSat-1 from the ISS is now being scheduled for either
Fall 2010 or early 2011 rather than Spring 2010.

This schedule adjustment also impacts when ARISSat-1 will be flown
to the Space Station with upload likely to take place sometime in
Summer 2010 rather than in January.

These revisions were made in response to new higher priority work
that must be done during the timeframe of the EVA that ARISSat-1
was originally scheduled in April 2010.

Overall, this revision helps ARISSat-1 because it provides additional
time for testing of the spacecraft. Furthermore, it also ensures
that the NASA Safety Review process for ARISSat-1 can be concluded
prior to shipment of the spacecraft to Russia.

The major items to complete for ARISSat are the IHU software, PSU software, PSU testing and system testing. The structure is coming together well and the team looks forward to providing an innovative and reliable satellite this coming spring.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-354.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 354.06
>From AMSAT HQ SILVER SPRING, MD.
December 20, 2009
To All RADIO AMATEURS
BID: $ANS-354.06

+ SSTV pictures received during the Moscow Aviation Institute Experiment aboard the ISS on December 9 can be viewed in the ARISS SSTV Gallery at: http://www.amsat.org/amsat/ariss/SSTV/

+ Congratulations to Jean-Marie, F2IL for 10,000 contacts via AO-7. (Via Zeljko, 9A2EY)

+ On December 7 Juan Antonio, EA4CYQ had a contact with Piraja PS8RF in Brazil via AO-7 Mode B. Signals were reported to sound clear without any noise or distortion over the Atlantic Ocean.

+ AMSAT Area Coordinator for the Washington, D.C. - Maryland Areas, Pat Kilroy, N8PK will kick off the planning for the next AMSAT-DC gathering with a teleconference call on Thursday, January 7, 2010, at 7:00 P.M. Eastern Standard Time. Please RSVP for the telecon directly to Patrick.L.Kilroy@nasa.gov, and he will forward the meeting information to you.

+ A YouTube video showing how to make a VO-52 contact can be viewed at: http://tinyurl.com/ydpc6ru

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-354.07
ESA and CNES to Fly Atomic Clock to ISS Columbus Module

AMSAT News Service Bulletin 354.07
>From AMSAT HQ SILVER SPRING, MD.
December 20, 2009
To All RADIO AMATEURS
BID: $ANS-354.07

The French space agency (CNES) and ESA have signed an agreement that paves the way for the launch of a high-accuracy atomic clock to be attached to the outside of the European Columbus laboratory onboard the International Space Station (ISS).

The PHARAO (Projet d'Horloge Atomique par Refroidissement d'Atomes en Orbite) atomic clock, which will be combined with another atomic clock, the Space Hydrogen Maser (SHM), to form ESA's Atomic Clock Ensemble in Space (ACES), will have an accuracy of 1x10-16, corresponding to a time error of about one second over 300 million years.

This new generation of atomic clocks in space will be instrumental in enabling accurate testing of Einstein's theory of general relativity. In addition, it will contribute to the accuracy and long-term stability of global timescales, such as Coordinated Universal Time (UTC). A dedicated microwave link will send the timing signal to the ground.

The atomic clock is designed for launch in the unpressurised cargo bay of the Japanese H-II Transfer Vehicle (HTV) or commercial SpaceX carrier in the second half of 2013. Once in orbit, it will be attached to Columbus' Earth-facing external payload platform using the Station Robotic Arm.

(Via SpaceDaily.com, see http://www.spacedaily.com/reports/PHARAO_Atomic_Clock_Agreement_Signed_By_ESA_And_CNES_999.html for full story.)

[ANS thanks SpaceDaily.com for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. And with that please keep in mind that Santa's elves are actually subordinate Clauses.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

151. SATELITA WX-1

Newsgroup: rec.radio.amateur.space
Date: 2009-12-20 08:55:19 UTC
From: Adrian Szumilas <szumiksp8aqk@poczta.onet.pl>
Message-ID: <hgkopn$99e$1@news.onet.pl>
Source record: 550

Radioamatorzy pracuj&#65533;cy via satelity z ca&#65533;ego &#65533;wiata donie&#65533;li, &#65533;e sygna&#65533;y z
bikonu WX-1 by&#65533;y bardzo silne.
Zosta&#65533; przetestowany r&#65533;wnie&#65533; transponder FM kt&#65533;ry dzia&#65533;a prawid&#65533;owo.
Pakiety AFSK dzia&#65533;a&#65533;y nad Japoni&#65533; na 435.675 AFSK MHz 1200bps.

JE1CVL, JH1EKH, BD4SY, JF2CTY, JH1BCL, JA5BLZ przeprowadzili &#65533;&#65533;czno&#65533;ci nad
Japoni&#65533; przy transponderze VHF(LSB) up i UHF (USB) down
(145.950 MHz up i 435.740 MHz down).

Mo&#65533;liwo&#65533;ci WX-1

```
Uplinks: 145.8250 MHz FM, PL 67.0 Hz.
145.9250 - 145.9750 MHz SSB/CW
145.8250 MHz AFSK 1200 BPS
```

```
Downlinks: 435.6750 MHz FM
435.7650 - 435.7150 MHz SSB/CW
435.6750 MHz AFSK 1200 BPS
```

```
Beacon: 435.7900 MHz CW
```

Poni&#65533;ej link Luciano Fabricio PY5LF do filmu video pokazuj&#65533;cego odbi&#65533;r
bikona z WX-1 i efekt Dopplera.

```
http://tinyurl.com/yjgett6
```

BD5RV/4 prosi i wysy&#65533;anie raport&#65533;w audio z odbioru WX-1 z podaniem QTH
godziny, daty i znaku na adres e-mail - michael.bd5rv@gmail.com

XW-1 CW Telemetry Dekoder Mike Rupprecht, DK3WN mo&#65533;na &#65533;ci&#65533;gn&#65533;&#65533; ze strony
http://www.dk3wn.info/software.shtml

```
Adrian SP8AQK
```

152. ANS-361 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2009-12-27 23:26:05 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001ca86fe$3df80500$b9e80f00$@net>
Source record: 551
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-361

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Report Your AMSAT Volunteer Hours
* SO-67 schedule
* SKN on OSCAR 2010
* AMSAT Kid's Day on AO-51 on 3 January
*Thank You and Season Greetings on Behalf of the HO-68 Team
* AO-51 Satellite Grid DXpedition Announced
* ARISS Status - 21 December 2009

SB SAT @ AMSAT $ANS-361.01
Report Your AMSAT Volunteer Hours

AMSAT News Service Bulletin 361.01
From AMSAT HQ SILVER SPRING, MD.
December 27, 2009
To All RADIO AMATEURS
BID: $ANS-361.01

Attention AMSAT Volunteers!

It is that time again when we gather volunteer hours donated to the AMSAT Program of Work to include within our yearly Audit. These important donations of personal time help us illustrate to the outside world the involvement of our members. We welcome reporting in all areas of service from Managing a booth at a Hamfest, to engineering of new AMSAT projects, to day to day operational activities.

If you are not already signed up for the on line Web site "VRS" (Volunteer Reporting System) program, please go to amsat.org and select "Become a Volunteer" from the link on the left side of the main page. Select #2 in order to create an account for your reporting. You will be given a confidential account into which you can report your volunteer hours. Select

3 to actually report your 2009 efforts.

We total up the efforts and total value while we keep confidential the
actual dollar amount of each volunteer.

With the year drawing to a close, this is a great time to submit those
hours. After January 1, 2010 we'll download the file and report these
numbers to our Auditor.

Your efforts are important, so please take the time to report. If you have
any questions feel free to email me at: w8gsm@amsat.org.

Gunther Meisse
AMSAT Treasurer
W8GSM

[ANS thanks Gunther, W8GSM, for the above information]

/EX

SB SAT @ AMSAT $ANS-361.02
SO-67 schedule

AMSAT News Service Bulletin 361.02
From AMSAT HQ SILVER SPRING, MD.
December 27, 2009
To All RADIO AMATEURS
BID: $ANS-361.02

Jan-Albert Koekemoer, ZR1JAK, received the following schedules from the
various
coordinators. Note that some passes had to be omitted due to other higher
priorities on the satellite.

SOUTH AMERICA:
27/12 01:18
27/12 11:48
27/12 13:25
27/12 23:25
28/12 00:58
28/12 11:28
28/12 13:02
28/12 23:05
29/12 00:35
29/12 11:08
29/12 12:41
30/12 00:16
30/12 01:50
30/12 10:48
30/12 12:20
30/12 23:56
31/12 01:30
31/12 10:29

31/12 11:59
31/12 23:36
01/01 01:10
01/01 11:38
01/01 13:14
01/01 23:16

AUSTRALIA/NZ:
27/12 21:19
28/12 00:28
28/12 20:57
28/12 22:31
29/12 00:07
29/12 20:37
29/12 22:09
29/12 23:46
30/12 21:51
30/12 23:24
30/12 21:30
30/12 23:05
01/01 00:40

USSR:
27/12 14:20
27/12 19:00

AFRICA:
27/12 05:30
28/12 08:16
29/12 07:58
30/12 06:03
30/12 07:38
31/12 05:42
31/12 07:17
01/01 05:20
01/01 06:57
01/01 08:26

JAPAN
27/12 00:30
27/12 22:37
28/12 00:09 (Deleted)
28/12 23:48
29/12 01:24
29/12 23:28
30/12 01:03
30/12 23:08
31/12 00:42
31/12 22:48
01/01 00:21

EUROPE
27/12 06:47
27/12 08:20
27/12 09:54
27/12 11:28
28/12 09:33
29/12 09:12

USA/CANADA
27/12 00:22 (Deleted)
27/12 13:08
27/12 14:43
27/12 16:16
27/12 17:49
27/12 19:21
27/12 20:54
27/12 22:28 (Deleted)
28/12 00:02

[ANS thanks Jan-Albert, ZR1JAK, for the above information]

/EX

SB SAT @ AMSAT $ANS-361.03
SKN on OSCAR 2010

AMSAT News Service Bulletin 361.03
From AMSAT HQ SILVER SPRING, MD.
December 27, 2009
To All RADIO AMATEURS
BID: $ANS-361.03

All radio amateurs, worldwide, are cordially invited to participate in AMSAT's Straight Key Night on OSCAR 2010.

Participating in SKN on OSCAR 2010 is easy. No rules, no scoring and no need to send in a log. Just operate CW through any OSCAR between 0000 and 2400 UTC on 1 January 2010, using a straight hand key.

The AMSAT AO-51 Operations Group reminds everyone that AO-51 will be configured to support CW operations during the annual Straight Key Night event. Participants may operate CW through AO-51 between 0000 and 2400 UTC on 1 January 2010, using a straight hand key.

AO-51 will be configured in the following mode during the event:
SSB/FM Repeater, V/U (CW QSOs only on Straight Key Night)
Uplink: 145.880 MHz USB
Downlink: 435.150 MHz FM

In keeping with the friendly nature of this event, all participants are encouraged to nominate someone they worked for "Best Fist." Your nominee need not have the best fist of those you heard, just of those you worked. Please send your nomination to w2rs@amsat.org. A list of

those nominated will appear in ANS and The AMSAT Journal.

[ANS thanks Ray, W2RS, and the AMSAT AO-51 Operations Group for
the above information]

/EX

SB SAT @ AMSAT $ANS-361.04
AMSAT Kid's Day on AO-51 on 3 January

AMSAT News Service Bulletin 361.04
From AMSAT HQ SILVER SPRING, MD.
December 27, 2009
To All RADIO AMATEURS
BID: $ANS-361.04

AMSAT-NA and the AO-51 Operations Group will sponsor Kid's Day on
AO-51 on January 3, 2010. The event is open to all kids, worldwide.

We ask all amateur radio stations to give this short time window to
promote satellite operations with kids, by actually showing a kid how
to make contacts via AO-51, providing a station to contact, or stepping
aside to allow others to make contacts with the kids. During the event,
please limit contacts to stations that are operating with kids at the
microphone. This should allow the kids to have a nice QSO and pass some
information. Kids can tell their name, age, who is helping them operate
on AO-51, where they live, and other information about themselves.

AO-51 will be configured in the following mode during the event.
Uplink: 145.880 MHz FM voice
Downlink: 435.300 MHz FM voice

See http://www.arrl.org/FandES/ead/kd-rules.html on the ARRL
website for more Kids Day information.

Have fun and enjoy AO-51!

[ANS thanks the AO-51 Operations Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-361.05
Thank You and Season Greetings on Behalf of the HO-68 Team

AMSAT News Service Bulletin 361.05
From AMSAT HQ SILVER SPRING, MD.
December 27, 2009
To All RADIO AMATEURS
BID: $ANS-361.05

CEO of Amsat-China and HO-68 (XW-1) Project Manager Alan Kung, BA1DU
wrote, "On behalf of Amsat-China and the HO-68 amateur satellite pro-
ject Team, I would like to express my sincere thanks to all radio
amateurs who reported the communications status of HO-68 satellite
in the past few days."

Alan continued, "I would also like to express my sincere thanks to all individuals and organizations for your congratulations. I must say I am sorry I am not able to respond to each of the reports, but your reports are very valuable for our analysis of status of the satellite. Thank you very much for your participation in the in-orbit satellite communications test of HO-68."

The HO-68 team wishes all a happy holiday and we hope HO-68 amateur satellite will be able to bring you a new fun!

This week AMSAT-NA President, Barry Baines, WD4ASW wrote, "On behalf of Radio Amateur Satellite Corporation, congratulations on the successful launch of XW-1 and its subsequent designation as HO-68. This is a significant milestone for both Amateur Radio and AMSAT-China. We are very excited to see not only a new amateur satellite successfully placed in service, but a new member of the AMSAT International family establishing itself as well. Please let us know more about your organization and how we might be able to develop appropriate relationships between AMSAT-China and other AMSAT organizations. Again, congratulations on placing HO-68 in service and best wishes for the New Year."

The latest official information can be found on-line on the AMSAT-China web page at http://www.camsat.cn/

The AMSAT-NA Satellite Status Web may also be consulted for frequency and operating mode information:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=116&retURL=/satellites/status.php

[ANS thanks Alan Kung, BA1DU and Barry Baines, WD4ASW for the above information]

/EX

SB SAT @ AMSAT $ANS-361.06
AO-51 Satellite Grid DXpedition Announced

AMSAT News Service Bulletin 361.06
From AMSAT HQ SILVER SPRING, MD.
December 27, 2009
To All RADIO AMATEURS
BID: $ANS-361.06

Jim, ND9M/VQ9JC, plans to activate 85 grids in 8 states on AO-51 between January 21st and February 10th. Jim and his wife will be driving to the Denver area (DN70) where his step-son lives and Cheyenne (DN71) where his brother lives. The trip will start from Panama City, Florida, on/or around January 21st, from where they head to Memphis, TN. Jim may possibly activate some grids. From Memphis they will head westbound through OK, then into KS and NE before hitting CO. Their around trip will take them through Big Bend National Park and Texas (hitting every grid in TX) and the Gulf Coast into Louisiana.

[ANS thanks KB8NW, OPDX Bulletin, and MakeMoreMilesOnVHF Newsletter
For the above information]

/EX

SB SAT @ AMSAT $ANS-361.07
ARISS Status - 21 December 2009

AMSAT News Service Bulletin 361.07
From AMSAT HQ SILVER SPRING, MD.
December 27, 2009
To All RADIO AMATEURS
BID: $ANS-361.07

1. Jeffrey Williams Chats with Italian Students via ARISS Contact

On Monday, December 14, Expedition 21 astronaut Jeffrey Williams, KD5TVQ participated in an Amateur Radio on the International Space Station (ARISS) contact with students from Istituto Comprensivo di Govone - Scuola Secondaria di primo grado "Nino Costa" di Priocca in Priocca, Cuneo, Italy. The contact was held at Infinito Astronomic Park in Pino Torinese, Torino, where an audience of more than 150 students, teachers, visitors and media watched as the students posed 22 questions to the astronaut during the nine minute pass. Following the contact, ARISS mentor Francesco De Paolis spoke to the children via teleconference about the contact and amateur radio. Regional television, local media and newspapers covered the event. The video, which was streamed on the web, received over 170 connections. The European Space Agency (ESA) reported the news on its Web site. See:
http://www.esa.int/esaCP/SEMLSV9K73G_Italy_0.html

2. ARISS International Team Meeting Held

An Amateur Radio on the International Space Station (ARISS) meeting was held on Tuesday, December 15. Agenda items addressed included the VHF AIS (Automatic Identification System) and ARISS antennas which were recently installed on the Columbus module and the status of ARISSat-1. To view the minutes, see:
https://www.rac.ca/ariss/arisstel2009-12-15.htm

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project

Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

153. WSR-364 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2009-12-30 22:32:22 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001201ca89a0$1eb23a90$5c16afb0$@net>
Source record: 552
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into four (4) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS $WSR-364.S1
WSR 364 Part 1 12/30/2009

AMSAT NEWS SERVICE BULLETIN 364.S1
FROM AMSAT HQ SILVER SPRING, MD, December 30, 2009
TO ALL RADIO AMATEURS
BID: $WSR-364.S1

HO-68 XW-1 (CAS-1)
Catalog Number:
Launch Date: December 15, 2009
Status: Commissioning

Callsign:

Uplinks: 145.8250 MHz FM, PL 67.0 Hz.
145.9250 - 145.9750 MHz SSB/CW
145.8250 MHz AFSK 1200 BPS
Downlinks: 435.6750 MHz FM
435.7650 - 435.7150 MHz SSB/CW
435.6750 MHz AFSK 1200 BPS

Beacon: 435.7900 MHz CW

Mode and Antenna Polarization:
V: LHCP 2.0dBi max
U: RHCP 3.0dBi max

IARU coordination page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108

For more information about XW-1 (CAS-1):
http://www.camsat.cn
[12122009]
=====
SO-67 SumbandilaSat
Catalog Number: 35870
Launch Date: September 17, 2009

Status: Commissioning
```

Callsign: ZS0SUM

Uplink: 145.875MHz FM tone 233.6 Hz
Downlink: 435.345MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

For more information about SO-67:
http://www.amsatsa.org.za/
[11212009]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: Operational
Current Mode: Science Mode - Beacon ONLY

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[02122009]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software Reload in Progress

Current Modes:
FM Repeater ONE
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM
FM Repeater TWO
Uplink: 145.880 MHz USB
Downlink: 435.150 MHz FM
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: 435.150MHz 9k6

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/CTNews.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12302009]

=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: RECOVERY
Current Mode: V/u (Mode JA)

Voice/CW (Mode JA)
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage:
http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/
fo29cwts.htm
[09062009]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[03232009]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational

Current Mode: Alternating between Mode A and B every 24 hours

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/
[02122009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 22 Crew:
Commander: Jeff Williams KD5TVQ
Flight Engineer: Maxim Suraev
Flight Engineer: Oleg Kotov
Flight Engineer: T.J. Creamer KC5WKI
Flight Engineer: Soichi Noguchi KD5TVP

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS

Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12222009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-364.S2
WSR 364 Part 2 12/30/2009

AMSAT NEWS SERVICE BULLETIN 364.S2
FROM AMSAT HQ SILVER SPRING, MD, December 30, 2009
TO ALL RADIO AMATEURS
BID: $WSR-364.S2

HO-68 XW-1 (CAS-1)
Catalog Number:
Launch Date: December 15, 2009
Status: Commissioning

Callsign:

Uplinks: 145.8250 MHz FM, PL 67.0 Hz.
145.9250 - 145.9750 MHz SSB/CW
145.8250 MHz AFSK 1200 BPS
Downlinks: 435.6750 MHz FM
435.7650 - 435.7150 MHz SSB/CW
435.6750 MHz AFSK 1200 BPS

Beacon: 435.7900 MHz CW

IARU coordination page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108

For more information about XW-1 (CAS-1):
http://www.camsat.cn
[122262009]
=====
SwissCube
Catalog Number: 35932
Launch Date: September 23, 2009

Status: In Orbit

Callsign: HB9EG

Beacon(100mw): 437.5050MHz CW
Beacon(1w): 437.5050MHz FSK 1k2bps
[11112009]
=====
UWE-2
Catalog Number: 35934
Launch Date: September 23, 2009

Status: In Orbit

Beacon(500mw): 437.3850 MHz AFSK 1k2bps
437.3850 MHz FSK 9k6bps
[1112009]
=====
ITUpsAT1
Catalog Number: 35935
Launch Date: September 23, 2009

Status: In Orbit

Beacon(100mw): 437.325MHz CW
Beacon(1w): 437.325MHz 19k2bps
[11112009]
=====
BEESAT
Catalog Number: 35933
Launch Date: September 23, 2009

Status: In Orbit

Callsign: DP0BEE

Beacon(100mw): 436.000MHz CW
Beacon(500mw): 436.000MHz GMSK 4k8bps
[11112009]
=====
Pollux
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: POLLUX-1

Downlink: 145.825MHz 1k2 AX.25
[10042009]
=====
Castor
Catalog Number:
Launch Date: July 31, 2009

Status: Operational

Callsign: KD4HBO-1

Downlink: 145.825 MHz 1k2 AX.25
[10042009]
=====
BEVO-1 (DRAGONSAT-1)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 437.325 MHz 9k6 GMSK
437.325 MHz CW 20wpm
[07312009]
=====
AggieSat2 (DRAGONSAT-2)
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Operational

Downlink: 436.250 MHz 9k6 FHSS
[11112009]
=====
CP-6
Catalog Number: 35004
Launch Date: May 19, 2009

Status: Commissioning

Downlink: 437.365 MHz 1k2 AFSK
[06052009]
=====
HAWKSAT 1
Catalog number: 35003
Launch Date: May 19, 2009

Status: ?

Downlink: 437.345 ?
[06052009]
=====
Pharmasat
Catalog Number: 35002
Launch Date: May 19, 2009
Status: Commissioning

Downlink: 437.465 MHz 1k2 AFSK
[06052009]
=====
ANUSAT
Catalog Number: 34808
Launch Date: April 20, 2009

Status: ?

Downlink: 435.000 MHz
Uplink: 145.800 MHz

Telemetry: 137.400 MHz
[05112009]
=====
SOHLA-1 (ASTRO TECH.)
Catalog Number: 33496
Launch Date: January 23, 2009

Status: Commisioning

Proposed Frequencies and Modes:
Downlink: 437.505 MHz AFSK/CW
Beacon: 437.505 MHz AFSK/CW

Callsign:

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=101
[03232009]
=====
KAGAYAKI (Solan Co.)
Catalog Number: 33495?
Launch Date: January 23, 2009

Status: In Orbit

Downlink: 437.375 MHZ FSK9k6/CW
Beacon: 437.375 MHz FSK9k6/CW

IARU coordination status page:

AMSAT-NA webpage:

[01152009]
=====
STARS (Kagawa Univ.) (Twin Satellites)
Catalog Number: 33498
Launch Date: January 23, 2009

Status: Operational ?

Downlinks: 437.485 MHz FM/CW
437.465 MHz FM/CW
Beacons: 437.305 MHz FM/CW
437.275 MHz FM/CW

Callsigns: JR5YBN
JR5YBO

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=99

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=121&retURL

=/satellites/status.php
[022152009]
=====
KKS-1 (Tokyo MCIT)
Catalog Number: 33499
Launch Date: January 23, 2009

Status: Operational

Downlink: 437.455 MHz AFSK/CW
Beacon: 437.385 MHz AFSK/CW

Callsign: JQ1YYY

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=107

AMSAT-NA webapge:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=120&retURL
=/satellites/status.php
[02212009]
=====
PRISM (Tokyo Univ.)
Catalog Number: 33493
Launch Date: January 23, 2009

Status: Operational ?

Downlink: 437.425 MHz AFSK/GMSK/CW
Beacon: 437.250 MHz AFSK/GMSK/CW

Callsign: JQ1YCX

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=97

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=119&retURL
=/satellites/status.php
[02212009]
=====
RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number: 32953
Launch Date: May 23, 2008

Status: Operational

Curent Modes: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz

AMSAT-NA website:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=115&ret
URL=/satellites/status.php

Official website:
http://www.npopm.com/?cid=leoca&caid=43
[02122009]
=====
CanX-2
Catalog number: 32790
Launch Date: April 28, 2008

Status: Operational in range of ground station only

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[02212009]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.425 MHz 1k2 baud packet

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[02212009]
=====
CO-65 CUTE-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: Digipeater

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

Telemetry Beacon:
Downlink: 437.2750 MHz CW

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

Command Station blog website:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=112&retURL
=/satellites/status.php
[02212009]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: Operational

Current Mode: 4k8 MSK packet

Uplink: 145.980 MHz FM
Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=114&retURL
=/satellites/status.php
[04272009]
=====
CO-66 Seeds II
Catalog number: 32791
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

Callsign: JQ1YGU

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/seeds_2_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=113&retURL
=/satellites/status.php
[02212009]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=94&retURL=
/satellites/status.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=72
[02122009]
=====
CP3
Catalog Number: 31129
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[02122009]
=====
GENESAT-1
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Callsign: KE7EGC

Telemetry Beacon Downlink: 437.0695 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[091512009]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/xivpicte.htm
[02212009]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: ?????

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=96&retURL
=/satellites/status.php

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[06082009]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=56
[02122009]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes:
FM Repeater ONE
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM
FM Repeater TWO

Uplink: 145.880 MHz USB
Downlink: 435.150 MHz FM
BBS
Uplink: OFF
Downlink: OFF
Telemetry
Downlink: 435.150MHz 9k6

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.860 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 Pacsat Broadcast Protocol
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/CTNews.php

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12162009]
=====
QuakeSat
Catalog Number: 27845
Launch Date: June 30, 2003

Status: Telemetry only

Current Mode: 9600 baud data packet

Mode U packet
Downlink: 436.675 MHz 9k6 BPS

Quakesat webpage:
http://www.quakefinder.com/services/quakesat-ssite/
[04272009]

=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=69&retURL
=/satellites/status.php
[02212009]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Telemetry only

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[03302009]
=====
RS-22 RADIO SPORT 22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=76&retURL
=/satellites/status.php
[02212009]
=====
LO-19 LUSAT

Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[03162009]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Non-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[12162009]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - V/u
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 22 Crew:
Commander: Jeff Williams KD5TVQ

Flight Engineer: Maxim Suraev
Flight Engineer: Oleg Kotov
Flight Engineer: T.J. Creamer KC5WKI
Flight Engineer: Soichi Noguchi KD5TVP

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 1k2
Worldwide packet downlink: 145.825 Mhz FM 1k2

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
145.990 MHz FM - 67.0 PL (Kenwood)
Repeater Downlink: 145.800 MHz FM
437.800 MHz FM (Kenwood)

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12222009]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-364.S3
WSR 364 Part 3 12/30/2009

AMSAT NEWS SERVICE BULLETIN 364.S3
FROM AMSAT HQ SILVER SPRING, MD, December 30, 2009
TO ALL RADIO AMATEURS
BID: $WSR-364.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
LIBERTAD-1
Catalog Number: 31128
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[02122009]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: Non-Operational

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[01012009]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non-Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
CANX-1
Catalog Number: 27847
Launch Date: June 30, 2003

Status: Non-Operational

Downlink: 437.8800 MHz AFSK 1k2bps
[06052009]
=====
DTUSAT
Catalog Number: 27842
Launch Date: June 30, 2003

Status: Non-Operational

Current Mode: 2k4 AFSK Packet last reported

Downlink: 437.475MHz

Officail webpage: http://dtusat1.dtusat.dtu.dk/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=101&retURL

=satellites/all_oscars.php
[02212009]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Telemetry only

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[03302009]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]

=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: 25636
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]

=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Telemetry only

Current Modes:
Telemetry : /u

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://asri.technion.ac.il/techsat/

AMSAT-NA webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID=14&retURL
=/satellites/status.php

[12012009]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
MO-30 UNAMSAT-2
Catalog Number: 24305
Launch Date: September 5, 1996

Status: Non-operational

Downlink: 435.1380 MHz AFSK 1200 BPS
Downlink: 435.2060 MHz AFSK 1200 BPS
Uplink: 145.8150 MHz AFSK 1200 BPS
Uplink: 145.8350 MHz AFSK 1200 BPS
Uplink: 145.8550 MHz AFSK 1200 BPS
Uplink: 145.8750 MHz AFSK 1200 BPS
[06042009]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Non-operational

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012009]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
AO-24 ARSENE
Catalog Number: 22654
Launch Date: May 13, 1993

Status: Non-operational

Uplink: 435.0625 MHz FM 1k2bps AFSK
435.1125 MHz FM 1k2bps AFSK
435.1375 MHz FM 1k2bps AFSK
Downlink: 145.9750 MHz FM 1k2bps AFSK
2446.5025 MHz FM 1k2bps AFSK

Beacon: 2446.4700 MHz CW

Broadcast callsign:
BBS:
[12162009]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: non-operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[07242009]
=====
UO-15 UoSAT-4
Catalog Number: 20438
Launch Date: January 22, 1990

Status: Non-operational

Uplink: ?
Downlink: 435.1250MHz (?)
435.1200MHz (?)
[06042009]
=====

UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW

Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $WSR-364.S4
WSR 364 Part 4 12/30/2009

AMSAT NEWS SERVICE BULLETIN 364.S4
FROM AMSAT HQ SILVER SPRING, MD, December 30, 2009
TO ALL RADIO AMATEURS
BID: $WSR-364.S4

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: July 28, 2008

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[01012009]
=====
NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Re-Entered
Re-entered: June 18, 2008

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[01012009]
=====
SO-43 Starshine 3
Catalog Number: 26929
Launch Date: September 30, 2001

Status: Re-Entered
Re-entered: January 21, 2003

Beacon: 145.825Mhz
[02212009]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-

mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at} amsat.org
NNNN
/EX

154. Kenwood SM-220 Station Monitor (no BS-8) Oscilloscope

Newsgroup: rec.radio.amateur.space
Date: 2009-12-31 11:20:37 UTC
From: Pirata <iz8qlk@live.it>
Message-ID: <b710b826-f8a1-470e-8883-8f2785c068da@22g2000yqr.googlegroups.com>
Source record: 553

Station monitor used but in perfect aesthetics conditions (see in
photo), there are only some imperfections due to the time.
The electronics is perfect, and the catodic ray tube works perfectly,
the item has been used as oscilloscope up to few days ago.

The auction includes:
Original box,
manual copy (or if you don't want it, it's possible to download it
here)
Kenwood SM 220

The optional BS-8 is not included

http://cgi.ebay.com/Kenwood-SM-220-Station-Monitor-no-BS-8-Oscilloscope_W0QQitemZ110475765945QQcmdZViewItemQQptZAccessori_per_Radioamatori?hash=item19b8de68b9